**Primary PGCE**

**CURRICULUM MAP FOR TEACHING AND LEARNING PATHWAY TRAINEES**

**Primary PGCE Programme Values and Beliefs**

All children deserve to be able to access, participate in and engage with learning, and have the best possible education experience. We know that good teachers are at the heart of this. With this in mind, we aim to develop **critically reflective** teachers - able to challenge existing assumptions (including their own) to adapt and develop their practice to meet the changing needs of their pupils. Our programme is designed to enable trainees to **understand and interrogate the principles of teaching and learning** which lie beneath practice, so that they can make **informed choices in their own practices**. We aim to develop trainees' confidence in **engaging with research** by helping them to understand and interpret research findings, and through direct experience of small-scale research-informed studies. Through this, we develop future teachers who have **agency**; they are adaptable, informed, and passionate about pupil learning. The Primary PGCE programme is designed to enable trainees to develop their pedagogical subject knowledge across the primary curriculum as well as developing their understanding of wider issues in education. The opportunity to specialise via different pathways allows trainees to develop their leadership potential by exploring such areas as curriculum design or a curriculum subject in more depth. Equipped with these qualities and skills, our trainees will join a wide community of teachers making a positive contribution to schools and a difference to children’s lives.

**Primary PGCE Programme aims**

Education is a complex and intellectually challenging process, the fundamental purpose of which is to prepare young people to take a full part in a changing, pluralist, and democratic society. Good teaching promotes effective learning. Throughout the PGCE year you will develop a personal and professional rationale for teaching and learning. The programme enables you to acquire the values, commitments, knowledge, understanding and skills that all teachers need. It also offers you opportunities for the development of personal transferable skills (self-management, learning skills, communication, teamwork, problem-solving and data-handling skills) and will provide you with the first stages in your profile of continuing professional development as a teacher. The programme contributes to both your immediate and your continuing professional education. At the end of the programme, you should be an effective classroom teacher, able to demonstrate your competences and to become an integrated member of the school community wherever you work. You will be equipped to work collaboratively and in dependently, with commitment to the all-round education of children. In the longer term, the PGCE course lays the foundation for lasting professional development. The PGCE programme leads into the MA Education programme, which we hope most of you will continue to during your first years of teaching. The Primary PGCE programme been designed to meet the requirements for Initial Teacher Education as set out in the Teachers’ Standards (DfE 2012) and ITT Criteria (DfE 2020).

**The aims of the University of Exeter Primary PGCE Programme are to:**

* achieve the standards necessary to qualify as a school teacher as identified in the Teachers’ Standards (2012)
* provide you with opportunities to engage with current research and debates in your field and consider the relationship between theory and practice
* develop your knowledge and understanding of how children learn and develop, and of the factors that can impact on their learning
* develop and extend your knowledge and understanding of the primary school curriculum, effective pedagogies and assessment strategies
* support the development of your subject knowledge and pedagogy to enable you to confidently teach across the primary age range
* develop knowledge and understanding of the teachers’ roles and responsibilities
* develop your understanding of how to plan your teaching to ensure progression and continuity across the curriculum areas and between phases
* provide advice and support to colleagues on curriculum content, pedagogy and assessment within a selected specialist subject, age-phase or context
* enable you to develop the skills of review, monitoring and evaluation, in order to contribute creatively and confidently as a new colleague in school, and to work successfully across multi-professional teams
* help you to recognise the importance of continuing professional development in supporting critical thinking, reflective practice and informed decision-making
* develop the ability to teach with imagination, enthusiasm and courage, and respond creatively to change.

**Primary Teaching and Learning Pathway Aims**

The aims of the Primary Teaching and Learning Module:

* **Acquiring a detailed understanding of research-inspired practice in primary education, largely based on the work of the Cambridge Primary Review Trust (as a springboard for further reading)**
* **Developing skills in critically reflecting on your professional learning to deepen knowledge and understanding of theory, policy and research, and recognise the implications of this information for your own professional philosophy and for improving practice**
* **Understanding the roles and responsibilities of the primary school teacher, ways to support and inspire colleagues and approaches to school-based professional inquiry**
* **Meeting the Standards required for the award of Qualified Teacher Status and thus be in a very good position to gain employment as a**

**primary teacher**

PGCE Primary Teaching and Learning Pathway

2021-2022 Programme Outline

|  |  |  |
| --- | --- | --- |
| **Date** | **Theme of Week** | **CCF** |
| 20 September  24 September | Welcome Seminar and an introduction to the Cambridge Primary Review  Aims: What is education for? What is learning?  **Briefing on Formative Assignment 1: A critique of a research paper, due 8 October** | 2.1, 2.2, 2.3, 2.4, 3.2, 5.6 |
| 1 October­­ | Curriculum: The knowledge/skills debate | 1.4, 1.6, 2.1, 2.2, 2.3, 2.4, 2.6, 3.5 |
| 8 October | Voice: Pupil voice in schools and society decolonising the curriculum  **Discuss Formative Assignment 1: A critique of a research paper Briefing on Pathway Assignment 2: Developing a literature review - Using research, policy and theory to explore a question, due 29th October** | 1.1, 8.1, 8.2 |
| 15 October | School based work: Preparation for your school placement | 3.2, 3.3, 3.4, 4.2, 4.3, 4.4, 4.8, 5.1, 5.2 |
| 22 October | **No Session: Personal Study Week and Pathway Reading Task (Formative Assignment 2)** |  |
| 29 October | Equity: Children’s literature: Who is it for? Who is it about? – Cathie Holden of Crediton Community Bookstore outreach team (guest speaker)  **Hand in Formative Assignment 2: Developing a literature review** | 1.1, 1.2, 1.4, 4.1, 5.1, 5.2, 5.4 |
| 5 November and 12 November | School based work |  |
| 19 November | Community: Bronfenbrenner’s ecological model and an introduction to school trips and fieldwork. | 1.1, 1.5, 1.6, 5.7, 8.3, 8.4 |
| 26 November | Pedagogy: Dialogic Teaching with guest speaker Dr Judith Kleine-Staaman | 3.6, 3.10, 4.7, 4.9 |
| 3 December | Sustainability: Forest School and the UN Sustainability goals | 8.3, 8.4 |
| 10December | Preparation for School Based work and the summative assignment | 3.7,3.8, 3.4, 4.2, 4.3, 4.4, 4.8, 5.1, 5.2, 8.2 |

|  |  |  |
| --- | --- | --- |
| Seminar Day One | Assessment: Current issues in assessment – theory into practice | 1.3, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7 |
| Seminar Day Two | Pedagogy: Behaviour management and questioning: Getting them right in your classroom | 1.1, 2.7, 3.10, 4.6, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7 |
| Seminar Day Three | Equity: Aspirational practice in EAL and in schools with social disadvantage | 1.3, 1.5,1.6, 4.10, 5.1, 5.2, 5.4, 8.6 |
| Seminar Day Four | Curriculum: Making Learning Irresistible | 2.6, 3.3, 3.7, 3.8 |
| Seminar Day Five | Final Seminar day: Planning for the future | 8.1, 8.2, 8.7 |

**Introduction**

Your training year is just the beginning of your development as a teacher, and you will *not* exit the year knowing everything there is to know about teaching and learning. Instead, we aim to support you in becoming an autonomous, independent, critically aware and reflective practitioner - someone who is able to identify your strengths and areas for development, with a desire to keep learning, to keep growing and to keep engaging with developments in our wider understanding of teaching.

This course is founded on the concept of **principled**, **reflective** **practice**, the idea that we should approach teaching with an informed understanding of pedagogy, how children learn, and what values drive what we do in the classroom. Smagorinsky describes how different this is to the "silver bullet" notion of "best practice" (2009, p.15). While the idea of 'best' implies that there might be a fixed set of approaches to teaching that are always superior, the concepts of 'reflective practice' and 'principled practice' instead focus on thinking about why we teach in certain ways, and the impact this might have on our students. This focus on 'why' invites you to make links between research and practice, to reflect on your own values, to unpick the hidden assumptions that can lie beneath the surface of any teaching activity, and to consider how teaching and learning always operates in context.

Above all, we invite you to view your knowledge of how to teach as an evolving, flexible entity. You are not accumulating a fixed and static body of knowledge about practice, ready to transfer into your teaching; rather, you are learning about evidence-informed, research-inspired approaches to teaching that you can try out, reflect on and develop in your own classrooms. Just as research is always marching forward, as a teacher the way that you teach will likely evolve and change considerably over time. Our curriculum map offers one synthesis of current knowledge: but the principles that underlie your teaching will ultimately be your own.

**Theoretical Framing**

Our curriculum coheres around the *Exeter* *Model* *Framework* which draws together a spectrum of issues that sociocultural theories identify as important in educational decision making. This framework is used in a number of ways - not least as tool that you'll use to explore some he key topics within our curriculum through *framework reflections.*

Diagram, schematic

Description automatically generated

**The overall course is based on principles drawn from socio-cultural theories of learning. Learning to teach involves:**

* Situated activity - learning within a school context (‘Community of Practice’ –Lave and Wenger 1991)
* Opportunities for dialogue with others, particularly those more experienced (Vygotsky 1978; Mercer, Wegerif & Major 2019)
* Scaffolded progress towards independent practice (see Wood, Bruner, Ross 1976)
* Tools to make sense of the knowledge, skills and social and political contexts of teaching (see Engeström, 1999)
* Deliberately reflective thinking about teaching and learning, strengthened through engagement in classroom research (Schon 1987; Beauchamp 2015)
* Understanding that contradictions (e.g. between theory and current practice or between a teachers' view and a trainees' expectations) are stimuli for exploration of why these differences occur and for new thinking and practice. They are points of creative growth for individuals and ultimately for the system.

Beauchamp, C. (2015). Reflection in teacher education: issues emerging from a review of current literature. *Reflective Practice*, *16*(1), 123-141.

Engeström, Y. (1999). Activity theory and individual and social transformation. *Perspectives on activity theory*, *19*(38), 19-30.

Lave, J., & Wenger, E. (1991). *Situated learning: Legitimate peripheral participation*. Cambridge university press.

Mercer, N., Wegerif, R., & Major, L. (Eds.). (2019). *The Routledge international handbook of research on dialogic education*. Routledge.

Schön, D. A. (1987). *Educating the reflective practitioner: Toward a new design for teaching and learning in the professions*. Jossey-Bass.

Smagorinsky, P. (2009). EJ Extra: Is It Time to Abandon the Idea of" Best Practices" in the Teaching of English? *The English Journal*, *98*(6), 15-22

Vygotsky, L. S. (1978). Socio-cultural theory. *Mind in society*, *6*, 52-58.

Wood, D., Bruner, J. S., & Ross, G. (1976). The role of tutoring in problem solving. *Journal of child psychology and psychiatry*, *17*(2), 89-100.

**Primary PGCE Programme Structure – please see the Programme Handbook for a more in-depth look at how the course is structured**

The primary PGCE programme curriculum is structured to enable you to develop in-depth knowledge of subject-specific pedagogy in all primary curriculum subject areas, in the **Curriculum Studies Module**. This will give you a chance to explore and consolidate your understanding of pedagogical principles as they relate to *specific areas* of the curriculum.

Throughout the programme you will explore core concepts, moving from foundation concepts in the autumn term taught course towards adaptive expertise, both within curriculum subjects but also through the themed **Educational and Professional Studies Module**. Your understanding of how to engage critically with research and to develop your reflective practice is also sequenced through formative and summative assignments with reading and reflecting on research, then moves into developing confidence in conducting your own research-informed study. Your **Pathway Module** allows you to develop in-depth knowledge within a specialised area.

These strands work alongside your **school-based training** which offers more contextual, situated sessions to help you to translate theory into practice.

**The Teachers' Standards for QTS and Core Content for Initial Teacher Training**

Our curriculum does not separate out the [Teachers' Standards](https://www.gov.uk/government/publications/teachers-standards) and address them one by one. This is because we recognise how interrelated many of the standards are, and that you will be constantly developing your understanding and skills across all of the standards.

However, the Department for Education has published recommended 'Core Content' for Initial Teacher Training which offers a framework which should be considered a "minimum entitlement" for all trainees, and this presents the content atomistically against each standard: <https://www.gov.uk/government/publications/initial-teacher-training-itt-core-content-framework>.

The tables which follow present the DfE core content and show the key areas where we integrate this information into our course - through topics, tasks, assignments and seminars. They also indicate some of the ways in which our course goes beyond this minimum entitlement, outlining some additional ideas that you will explore.

Each year there are also additional optional enrichment opportunities, including the Graduate School of Education Research Lecture series in which leading experts present on a range of important educational topics each year.

Alongside the academic content, we support your progress towards the standards through our **phases**. There are different expectations within each phase - for example, of how much classroom contact time you have, or which training tools you use to evaluate and reflect. This *scaffolds* your progress in a gradual sequence which moves towards independent practice.

The 'profile descriptor' of each phase describes the knowledge, understanding and skills that we expect you to be able to demonstrate at the end of it. The movement through the phases is **flexible**, depending on your needs. Meeting the 'Developing Independence' phase indicates that you have met the standards required for the award of QTS.

Anticipating Practice

Enrichment and Extension

Beginning Practice

Consolidating Practice

Developing Independence

Your phases of development

|  |  |  |  |
| --- | --- | --- | --- |
| **High Expectations (Standard 1 – ‘Set high expectations’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 1.1 Teachers have the ability to affect and improve the wellbeing, motivation and behaviour of their pupils. | Child Development  Behaviour  Informal Learning  Child Protection and Safeguarding  Curriculum design  *Challenging the Gap Task* | **English:** Creating literacy environments which are safe and stimulating, and which motivate pupils to develop a love of reading, writing, and speaking and listening. The importance of providing pupils with a rich and varied diet of literature, which includes representations of minority groups, ethnicities, and languages. The importance of inclusive practice for pupils with SEND and EAL.  **Mathematics:** Exploring calculation policies in schools, reflecting growth mind set and mathematical anxiety  **Science:** Generating an exciting and relevant scientific environment, which motivates students to develop their scientific understanding. For instance, learning in nature, creating a crime scene for forensics, and traveling to Mars.  **Art:** emphasis on art as communication, effective and affective dimensions  **Computing:** Having a multi-modal approach to computing, which includes unplugged activities which can be done outside.  **Humanities:** Establishing a safe environment of mutual respect with comparisons of similarities and differences, championing diversity and global education.  **Modern Languages: L**anguage learning strategies (e.g. memorisation), metacognitive strategies; understanding how children learn)  **Music:** Foster of love of singing, instrumental playing and collaborative music making  **PE:** Developing a safe, engaging and positive learning environment for *all* pupils to participate, progress and compete in PE and school sport.  **Teaching and Learning Pathway:**   * Develop an understanding of Bronfenbrenner’s ecological system theory and its application in the primary school * Understanding how to nurture motivation and the role of intrinsic and extrinsic motivation | **Children’s Learning** – Expectations and Target Setting |
| 1.2 Teachers are key role models, who can influence the attitudes, values and behaviours of their pupils. | Behaviour  Being a Teacher  Professionalism and Researchful Practice | **English:** Reflecting on the importance of providing a rich literature curriculum which includes and stimulates all pupils, including in minority contexts of EAL, representations of minority groups and language diversity  **Mathematics:** Mathematics as human activities is introduced and positive attitudes towards mathematics is emphasised. Making mistakes is seen as a part of learning process for conceptual understanding as well as procedural fluency  **Science:** Demonstrating scientific attitudes as well as understanding, through promoting scientific rigour and cultural responsiveness.  **Art:** Modelling a highly positive attitude to art, craft and design and offering inspiration through curriculum and teaching  **Computing:** Modelling and practicing a computing mind-set, with logical reasoning and creativity.  **Humanities:** Considering differentiation and inclusion in Geography, History and RE. Demonstrating positive attitudes in discussions for example in engaging with the Philosophy 4 Children project  **Modern Languages:** Encouraging confidence in ML and curiosity about the world  **Music:** Fostering a safe and simulating classroomenvironment for music making. Demonstrate positive attitudes, values and behaviour towards listening, appraising, composing and performing  **PE:** Demonstrating a healthy, active lifestyle and positive attitude toward PE and inspiring pupils to learn through motivational lessons  **Teaching and Learning** **Pathway:**   * Considering a inclusion and the curriculum as both a “window” and a “mirror” |  |
| 1.3 Teacher expectations can affect pupil outcomes; setting goals that challenge and stretch pupils is essential. | Purpose of Education  Curriculum Design  Educational Theory  Creativity  *Challenging the Gap* | **English:** Planning for progress within and across all planned episodes of teaching, and which take into account the diversity of pupils’ learning needs (e.g. SSP peer teaching and weekly plans)  **Mathematics:** Problem solving activities to stretch pupils modelled by maths pathway trainees.  **Science:** Exploring our own learning through Humanist educational theory.  **Art:** setting suitably high expectations for all learners  **Computing:** Input on computing with children with SEND  **Humanities:** Stimulating pupils using story to engage them with History, modelling use of videos and interactive activities and employing artefacts to draw in all pupils even those who may struggle with extended reading.  **Modern Languages:** Knowledge about language (grammar, phonics, vocabulary)  **Music:** Demonstrate high expectations and confidence for all aspects of music making  **PE:** Planning motivational lessons which both challenge and support pupil learning.  **Teaching and Learning Pathway:**  Understanding formative and summative assessment and how they can be used to facilitate progress | **Children’s Learning** – Expectations and Target Setting |
| 1.4 Setting clear expectations can help communicate shared values that improve classroom and school culture. | Behaviour  *Challenging the Gap* | **English:** Reflecting on the importance of providing a rich literature curriculum which includes and stimulates all pupils, including in minority contexts of EAL, representations of minority groups and language diversity  **Mathematics:** Setting clear expectations for use of maths equipment.  **Science:** Demonstrating scientific values including the value of enquiry, knowledge, culture and decolonial science.  **Art:** e.g., looking at values as explored through artworks  **Computing:**  **Humanities:** Humanities skills, develop understanding of what subject knowledge is important and providing access and resources for developing that. Examining pedagogical approaches to teaching Geography, History and RE. Engaging with current research in the field of humanities  **Modern Languages:** Language learning strategies, importance of ‘having a go’  **Music:** Promote high quality music making throughout the school  **PE:** Setting realistic expectations and exploring shared values through PE.  **Teaching and Learning Pathway:**   * Intercultural understanding | **Children’s Learning** – Expectations and Target Setting **Welfare:** Safeguarding and Pastoral Systems |
| 1.5 A culture of mutual trust and respect supports effective relationships. | Behaviour  Child Protection and Safeguarding | **English:** Planning lessons that are safe and stimulating and which inspire learners to develop understanding of and empathy for others’ perspectives and lived experiences  **Mathematics:**  **Science:** Planning and evaulating lessons that are motivating and inclusive.  **Art:** ensuring balance between teacher-directed content and student choice  **Computing:** Peer collaboration in activities  **Humanities:** identifying own worldview and theevolutionary process that has formed these facilities greater mutual respect for those with different worldviews/religions.  **Modern Languages:** Intercultural Understanding, creating a positive classroom atmosphere, understanding ML anxiety and affective filter (and dealing with our own)  **Music:** Provide opportunities for creative thinking, exploration and practical work  **PE:** Building positive teacher-pupil relationships based on trust, respect and support.  **Teaching and Learning Pathway:**   * Developing an understanding of the work of Maslow and it’s impact on creating a positive classroom ethos |  |
| 1.6 High-quality teaching has a long-term positive effect on pupils’ life chances, particularly for children from disadvantaged backgrounds. | Race and Education: Preparing to teach children from all backgrounds  Addressing issues of gender and social inequality  *Challenging the Gap* | **English:** Motivating pupils to read for pleasure and reflecting on the positive impact that reading makes in children’s lives  **Mathematics:**  **Science:**  Developing and nurturing a passion for science, and an understanding of its significance to our futures.  **Art:** art making for enjoyment and wellbeing as well as knowledge and skill acquisition  **Computing:** empowerment in the developing confidence in computing.  **Humanities:** Setting high expectations for all pupils regardless of gender or ethnicity.  **Modern Languages:** Planning for motivation and engagement; storytelling as stimulus for curriculum design  **Music:** Promote a lifelong love of music and performing  **PE:** Improving the life chances of all pupils through knowledgeable, confident and enthusiastic PE teaching.  **Teaching and Learning Pathway:**   * social disadvantage and its impact on pupil outcomes * how to create an effective learning environment in classrooms with linguistic diversity | **Children’s Learning** – Expectations and Target Setting |

|  |  |
| --- | --- |
| **High Expectations (Standard 1 – ‘Set high expectations’)** | |
| **Learn how to…** | **SBW** |
| **Communicate a belief in the academic potential of all pupils, by:**   * Receiving clear, consistent and effective mentoring in how to set tasks that stretch pupils, but which are achievable, within a challenging curriculum.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Using intentional and consistent language that promotes challenge and aspiration. * Creating a positive environment where making mistakes and learning from them and the need for effort and perseverance are part of the daily routine. * Seeking opportunities to engage parents and carers in the education of their children (e.g. proactively highlighting successes) with support from expert colleagues to understand how this engagement changes depending on the age and development stage of the pupil.   **Demonstrate consistently high behavioural expectations, by:**   * Receiving clear, consistent and effective mentoring in how to create a culture of respect and trust in the classroom that supports all pupils to succeed (e.g. by modelling the types of courteous behaviour expected of pupils).   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Teaching and rigorously maintaining clear behavioural expectations (e.g. for contributions, volume level and concentration). * Applying rules, sanctions and rewards in line with school policy, escalating behaviour incidents as appropriate. * Acknowledging and praising pupil effort and emphasising progress being made. | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs.  *Challenging the Gap Framework Task*  *SEND Framework Task* |

|  |  |  |  |
| --- | --- | --- | --- |
| **How Pupils Learn (Standard 2 – ‘Promote good progress’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 2.1 Learning involves a lasting change in pupils’ capabilities or understanding. | Educational Theory  Child Development  Informal Learning  Professionalism and Researchful Practice | **English:** The importance of scaffolding pupils’ thinking as they perform everyday tasks of reading and writing  **Mathematics:**  **Science:** Understanding the ‘threshold concept’, using analogies and models in science, and how significant these are to learning.  **Art:** embodied learning in the subject  **Computing:** Developing life-long computing skills  **Humanities:** The enquiry approach in humanities is introduced and discussed in relation to a didactic approach to teaching Humanities  **Modern Languages:** Language learning strategies, oracy and literacy  **Music:** Provide children with high-quality opportunities to engage in practical work  **PE:** Planning PE teaching which builds on pupils’ prior knowledge and experiences, carefully scaffolds their learning and monitors their progress.  **Teaching and Learning Pathway:**   * **Understanding of the nature of learning** |  |
| 2.2 Prior knowledge plays an important role in how pupils learn; committing some key facts to their long-term memory is likely to help pupils learn more complex ideas. | Educational Theory | **English:** Reading assessment task: reflecting on the importance of pitching books to pupils' instruction level of reading  **Mathematics:** learning in maths – such as considering activities to discovery mathematical rules through enquiry and strategies to learn times tables etc.  **Science:** The ideas of meta-cognition and, deep and shallow learning is discussed i.e. Why don't we just tell children the answers? Prior knowledge used in action.  **Art:** activities should always build on prior experience and knowledge  **Computing:** understanding the importance of building on prior learning.  **Humanities:** Identification of ethno knowledge (pupils’ prior knowledge) crucial foundation point in humanities.  **Modern Languages:** Language learning strategies  **Music:** Understand the importance of prior learning and progression in the music curriculum.  **PE:** Understanding the importance of pupils’ prior knowledge when planning motivational PE lessons.  **Teaching and Learning Pathway:**   * Use of prior knowledge and knowledge organisers |  |
| 2.3 An important factor in learning is memory, which can be thought of as comprising two elements: working memory and long-term memory. | Educational Theory | **English:** Learningstrategies which extend pupils’ long and short-term memory in everyday tasks of reading and writing. Making use of spaced retrieval and interleaving for the teaching of SSP  **Mathematics:**  **Science:** revision of key points, time allocated for reflective practice.  **Art:** revisiting key learning points is vital (eg visual elements, vocab etc.)  **Computing:**  **Humanities:**  **Modern Languages:** rote learning in languages, graded questioning  **Music:** Engage in singing and instrumental work using memory and recall  **PE:** Drawing upon key learning theories (e.g. cognitive load) to inform planning and teaching in PE.  **Teaching and Learning Pathway:**   * Graded questioning, learning by rote * Teaching new vocabulary |  |
| 2.4 Working memory is where information that is being actively processed is held, but its capacity is limited and can be overloaded. | Educational Theory | **English:** Understanding thedifferent kinds of cognitive load in writing (e.g. letter formation, spelling patterns, sentence construction) and how these make varied demands on young writers  Understanding the “Simple view of reading” and the cognitive demands of decoding and text comprehension  **Mathematics:**  **Science:** an analysis of tricky topics and how to teach them in science  **Art:** ensuring activities are suitably paced and scaffolded  **Computing:**  **Humanities:** Identify key elements of topics that need to focus on i.e. web pages with age-appropriate levels of information.  **Modern Languages:** Understanding ‘little and often’ and ‘doing a lot with a little’ in relation to vocabulary, phonics and grammar  **Music:** Structure practical music making appropriately  **PE:** Understanding the importance of well demonstrated, explained and scaffolded learning activities to support pupil learning.  **Teaching and Learning Pathway:**   * The role of spaced retrieval and interleaving in moving knowledge from working to long-term memory |  |
| 2.5 Long-term memory can be considered as a store of knowledge that changes as pupils learn by integrating new ideas with existing knowledge. | Educational Theory | **English:** Extending pupils’ repertoire of understanding of syntactic, textual and genre conventions when performing everyday tasks of reading and writing  **Mathematics:**  **Science:** Practical hands-on experiences, with outdoor learning  **Art:** knowledge in art can be gained haptically  **Computing:** practical experiences  **Humanities:**  **Modern Languages:** Language learning strategies, memory  **Music:** Structure practical music making appropriately  **PE:** Allowing time for pupils to learn in PE through meaningful discussion, exploration and experimentation in pairs/small groups.  **Teaching and Learning Pathway:**   * Planning for progression |  |
| 2.6 Where prior knowledge is weak, pupils are more likely to develop misconceptions, particularly if new ideas are introduced too quickly. | Educational Theory | **English:** The importance of scaffolding pupils' learning via questioning; Barrett's taxonomy for probing pupils' understanding of texts in shared and guided contexts; activating pupils' prior knowledge; the importance of giving pupils meaningful experiences of writing and the importance of developing a wide vocabulary  **Mathematics:** Importance of 'doing' mathematics with multiple representations (visual, symbolic, discursive, etc.) for conceptual understanding. Recognising children's misconceptions and how to support children's learning. Collecting children's work and misconceptions  **Science:** Motivational approaches; Keller's ARCS model in relation to forensic science scenario. 3D models of Earth, sun and moon to represent science ideas. Misconceptions analysed throughout.  **Art:** assess pupils’ knowledge as baseline at start of each new topic  **Computing:** peer support helps with co-constructed skills and knowledge  **Humanities:** Pedagogical approaches to RE introduced with the RE-searchers project. Peer teaching - Digimaps - progression in mapping skills.PE: Scaffolding pupils' learning through formative and summative assessment  **Modern Languages:** Scaffolding, graded questioning, introducing new vocabulary, grammar, phonics, target language use  **Music: S**caffold musical learning appropriately and look to build confidence  **PE:** Using pupil assessment information (diagnostic, formative & summative) and knowledge of pupils to inform pair and/or small group work activities.  **Pathway:**   * Using elicitation tasks, problem based learning, mantle of the expert and effective plenary |  |
| 2.7 Regular purposeful practice of what has previously been taught can help consolidate material and help pupils remember what they have learned. | Educational Theory | **English:** Understanding the importance of the spiral curriculum, building on previous knowledge (e.g. rehearsing different story patterns; revisiting spelling patterns)  **Mathematics:**  **Science:** progression through ‘working scientifically’ skills.  **Art:** revisit key content/ skills – eg regular drawing practice.  **Computing:**  **Humanities:** When studying a variety of religions use worldview ultimate questions as a framework to address new religion.  **Modern Languages:** Introducing new vocabulary, understanding progression, retrieval practice (vocab, phonics and grammar)  **Music:** Engage in high-quality opportunities for structured practical music making – planned appropriately  **PE:** Reviewing and practising skills previously learned both within and outside of PE curriculum time.  **Teaching and Learning Pathway:**  Developing effective questioning skills |  |
| 2.8 Requiring pupils to retrieve information from memory, and spacing practice so that pupils revisit ideas after a gap are also likely to strengthen recall. | Educational Theory | **English:** Understanding the importance of spaced practice in relation to learning new letters and sounds, spelling patterns, vocabulary and grammar  **Mathematics:**  **Science:** bring in students' prior knowledge and experiences.  **Art:** n/a in art  **Computing:** n/a  **Humanities:** Discussions on use of Knowledge organisers.  **Modern Languages:** Understanding principles of spaced practice in relation to vocab, phonics and grammar  **Music:** Develop a personal repertoire of songs and instrumental ideas and concepts  **PE:** Understanding the importance of spaced practice in relation to learning new and prior knowledge and skills.  **Teaching and Learning Pathway:**   * Using quizzes for assessment |  |
| 2.9 Worked examples that take pupils through each step of a new process are also likely to support pupils to learn. | Educational Theory | **English:** The importance of scaffolding pupils with higher level questions as they learn new sounds, spelling patterns, vocabulary and grammar. Using shared reading and writing so that pupils are able to see the strategies used by expert readers and writers.  **Mathematics:**  **Science:** an “electricity apprentice scheme”, which builds and scaffolds understanding.  **Art:** teacher modelling - supporting aspirational expectations for learning  **Computing:** writing a brief programme on Scratch.  **Humanities:** Scaffolding learning in humanities  **Modern Languages:** Scaffolding, graded questioning, introducing new vocabulary, grammar, phonics, target language  **Music:** Introduce new and exciting repertoire to foster a love of music  **PE:** Scaffolding pupils’ learning through clear and accurate demonstrations, illustrations, explanations and questions.  **Teaching and Learning Pathway:**   * Exemplars from M level writing- demonstration of live marking |  |

|  |  |
| --- | --- |
| **How Pupils Learn (Standard 2 – ‘Promote good progress’)** | |
| **Learn how to…** | **SBW** |
| **Avoid overloading working memory, by:**   * Receiving clear, consistent and effective mentoring in how to take into account pupils’ prior knowledge when planning how much new information to introduce. * Discussing and analysing with expert colleagues how to reduce distractions that take attention away from what is being taught (e.g. keeping the complexity of a task to a minimum, so that attention is focused on the content).   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Breaking complex material into smaller steps (e.g. using partially completed examples to focus pupils on the specific steps).   **Build on pupils’ prior knowledge, by:**   * Discussing and analysing with expert colleagues how to sequence lessons so that pupils secure foundational knowledge before encountering more complex content. * Discussing and analysing with expert colleagues how to identify possible misconceptions and plan how to prevent these forming.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Encouraging pupils to share emerging understanding and points of confusion so that misconceptions can be addressed. * Linking what pupils already know to what is being taught (e.g. explaining how new content builds on what is already known).   **Increase likelihood of material being retained, by:**   * Observing how expert colleagues plan regular review and practice of key ideas and concepts over time (e.g. through carefully planned use of structured talk activities) and deconstructing this approach. * Discussing and analysing with expert colleagues how to design practice, generation and retrieval tasks that provide just enough support so that pupils experience a high success rate when attempting challenging work.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Balancing exposition, repetition, practice and retrieval of critical knowledge and skills. * Increasing challenge with practice and retrieval as knowledge becomes more secure (e.g. by removing scaffolding, lengthening spacing or introducing interacting elements). | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject and Curriculum (Standard 3 – ‘Demonstrate good subject and curriculum knowledge’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 3.1 A school’s curriculum enables it to set out its vision for the knowledge, skills and values that its pupils will learn, encompassing the national curriculum within a coherent wider vision for successful learning. | Purpose of Education  Curriculum Design | **English:** Secure subject knowledge of English including phonics, grammar and spelling. Reading, writing and speaking and listening are positioned as meaning making activities in which pupils have the opportunity to discover more about themselves and the wider world  **Mathematics:** Secure subject knowledge NC  **Science:** Secure subject knowledge: plants, animals including humans, living things and their habitats, evolution and inheritance and ecosystems. The above is used to explore science as a habit of mind, and the pedagogy of science education. The educational theorist John Dewey and his ‘naturalist’ view of education is discussed in relation to lectures and workshops  **Art:** creating a rich and diverse curriculum, acknowledging scope of the subject, with suitable continuity and progression  **Computing:** a clear vision for what computing can be, following the curriculum aims.  **Humanities:** National curriculum for Geography and History. Locally agreed syllabus for RE – Devon.  **Modern Languages:** The National Curriculum in ML  **Music:** Promote a shared vision for musicial learning across the house tour  **PE:** Secure subject knowledge and curriculum knowledge of PE including dance, games and gymnastic activities.  **Teaching and Learning Pathway:**   * The National Curriculum * Curriculum design |  |
| 3.2 Secure subject knowledge helps teachers to motivate pupils and teach effectively. | Child Development  Educational Theory | **Pre-course audits and action plans for all curriculum subjects.**  **English:** Planning for peer teaching of grammar subject knowledge; peer teaching and planning of SSP. Use of children’s literature that motivates and encourages children to read and write for pleasure  **Mathematics**: Planning for peer group – e.g. long division.  **Science:** Highlighting chemical areas of NC (everyday materials, particle theory, states of matter, periodic table) and students' own SK to teach it effectively  **Art:** Enhancing subject knowledge through practical explorations and examining artists’ work  **Computing:**  **Humanities:** Examining NC to discover subject knowledge necessary for each KS. Subject knowledge RE panel of experts to model developing subject knowledge. RE- searchers - pedagogical approaches to SK.Peer teaching - with one religion deeper examination of that providing skills for how to develop greater SK, modelling historical enquiry for discovering SK. Stone age to iron age as a focus as this is often identified as a key area with limited SK in trainees  **Modern Languages:** Modelling confidence and curiosity about ML  **Music:** Develop confidence to teach music in a structured, developmental way  **PE:** Enhancing subject knowledge in PE through collaborative learning in pairs/group work and demonstrations and modelling.  **Teaching and Learning Pathway:**   * Initial Needs Analysis and target setting * Modelling a growth mindset * Developing a community of practice for peer subject knowledge support |  |
| 3.3 Ensuring pupils master foundational concepts and knowledge before moving on is likely to build pupils’ confidence and help them succeed. | Curriculum Design  Educational Theory | **English:** The importance of secure knowledge of SSP so that pupils can read and write fluently and independently and with enjoyment  **Mathematics:** Sharing and experiencing different calculation strategies, using multiple representations to secure conceptual and procedural understanding for number operations  **Science:** learning about space in increasing complexity, with night and day proceeding seasons for example.  **Art:**  - eg encouraging regular drawing practice and use of key vocab/ concepts  **Computing:** building on prior knowledge.  **Humanities:** Revisiting key concepts – e.g. time, place, community.  **Modern Languages:** The NC for KS2, subject knowledge auditing, action plan for SK  **Music:** Develop subject knowledge for music teaching and engage with the four key areas of music (listening, appraising, composing and performing). Develop confidence and understanding of the inter-related dimensions of music (pitch, duration, dynamics, tempo, timbre, texture, structure and appropriate musical notations  **PE:** Encouraging pupils to regularly practice and use key PE vocabulary/terminology  **Teaching and Learning Pathway:**   * Effective curriculum design * Planning for progression within and across sequences of lessons * Preparation for school based work |  |
| 3.4 Anticipating common misconceptions within particular subjects is also an important aspect of curricular knowledge; working closely with colleagues to develop an understanding of likely misconceptions is valuable. | Educational Theory | **English:** Peer teaching and planning of SSP and grammar, during which episodes trainees are given both oral and written feedback on their pedagogical and content knowledge  **Mathematics:** lesson/episode planning including considering misconceptions  **Science:** lecture specifically on misconceptions, with this addressed recursively  **Art:** providing time for discussion and aiming to anticipate pupil difficulties  **Computing:** discussing computing misconceptions.  **Humanities:** Identifying potential misconceptions i.e. chronology.  **Modern Languages:** Pedagogical approaches to teaching: listening, speaking, reading, writing, language learning strategies, grammar, teaching about culture  **Music:** Understand common misconceptions in musical learning and how best to address these.  **PE:** Discussing common misconceptions in PE and school sport and how to address them.  **Teaching and Learning Pathway:**   * Peer teaching |  |
| 3.5 Explicitly teaching pupils the knowledge and skills they need to succeed within particular subject areas is beneficial. | Educational Theory  Curriculum Design | **English:** Teaching of higher order thinking skills and questioning in reading (Barrett’s taxonomy) Providing contextualised reading and writing activities.  **Mathematics:** Undertaking mathematically rich problem solving, undertaking using and applying mathematics (measurement, algebra); moreproblem solving in ratio/proportions  **Science:** Analysis of distinct types of scientific enquiry.  **Art:** teacher modelling of techniques, critical appraisal etc.  **Computing:** direct participation in computational activities  **Humanities:** Undertaking enquiries to answer authentic historical, geographical or religious questions.  **Modern Languages:** Language learning strategies, cognitive load  **Music:** Build on successes and ensure progression in learning  **PE:** Teacher demonstrations and modelling of skills and techniques.  **Teaching and Learning Pathway:**   * Knowledge based approaches and use of knowledge organisers |  |
| 3.6 In order for pupils to think critically, they must have a secure understanding of knowledge within the subject area they are being asked to think critically about. | Educational Theory | **English:** Critical reading at text and sentence level; using grammatical features (e.g. use of the passive voice) to examine bias  **Mathematics:**  **Science:** an examination of the principles of light, then enquiring how we can explore these. Enquiries often lead to critical questions which can precede knowledge, and consequently motivate further learning (“why do I go faster down the slide in my puddlesuit?”)  **Art:** considering appropriate scaffolding – eg to support vocab/ concept knowledge  **Computing:** this subject lends itself to a more 'spiral’ approach to this.  **Humanities:** Questioning sources – reliability, bias etc.  **Modern Languages:**  **Music: Encourage children to question, work critically and creatively explore in a safe environment**  **PE:** Teacher demonstration and modelling of how to think critically in an activity where subject knowledge is secure.  **Teaching and Learning Pathway:**   * Philosophy for Children, Mantle of the Expert and dialogic teaching approaches |  |
| 3.7 In all subject areas, pupils learn new ideas by linking those ideas to existing knowledge, organising this knowledge into increasingly complex mental models (or “schemata”); carefully sequencing teaching to facilitate this process is important. | Educational Theory | **English:** Modelling of the planning process, from individual lesson plans to longer sequences of work, and identifying learners’ outcomes  **Mathematics:**  **Science:** building on prior experience, culture, and knowledge. Seeing the interconnections from sub-atomic to celestial. Promote intellectual curiosity.  **Art:** making connections is central to thinking like an artist  **Computing:** emergent and interconnected curriculum activities.  **Humanities:** Developing skills in Humanities to identify what knowledge is needed/desired in a new topic. Cross-curricular approaches to humanities  **Modern Languages:**  **Music:** Foster a rich and vibrant curriculum to promote a love of music  **PE:** Making connections between PE activities (e.g. dance, games, gymnastics) and between PE and other curriculum subjects (e.g. Science, MFL).  **Teaching and Learning Pathway:**   * Curriculum design * Planning for progression |  |
| 3.8 Pupils are likely to struggle to transfer what has been learnt in one discipline to a new or unfamiliar context. | Child Development  Educational Theory | **English:** Opportunities to plan for cross-curricular English using high-quality children’s literature  **Mathematics:**  **Science:** revising and re-learning scientific concepts, relevant for primary education, with links to real-life issues.  **Art:** art can act as a useful vehicle for trandisciplinary learning – e.g. cross-curr links  **Computing:** emergent and interconnected curriculum activities.  **Humanities:** Cross-curricular session to transfer skills – enquiry approach.  **Modern Languages:**  **Music:** Develop links with other areas of the curriculum such as mathematics and humanity  **PE:** Opportunities for interdisciplinary planning, teaching and learning between PE and Science (e.g. structure & function of the body systems).  **Teaching and Learning Pathway:**   * Cross curricular planning |  |
| 3.9 To access the curriculum, early literacy provides fundamental knowledge; reading comprises two elements: word reading and language comprehension; systematic synthetic phonics is the most effective approach for teaching pupils to decode. | Educational Theory  Child Development | **English:** Secure subject knowledge of Systematic Synthetic Phonics; secure subject knowledge of grammar terminology; the importance of accurate pronunciation of phonemes; correct modelling of Standard English in shared and guided writing inputs; a deep understanding of how readers comprehend text; an understanding of the role of audience, purpose and genre in writing. An introduction to the use of decodable texts for early readers.  **Mathematics:**  **Science:**  **Art:** n/a  **Computing:**  **Humanities:**  **Modern Languages:** Phonics in ML  **Music:**  **PE:**  **Teaching and Learning Pathway:**  Children’s literature as a window and mirror on children’s lives. Choosing texts that engage learners |  |
| 3.10 Every teacher can improve pupils’ literacy, including by explicitly teaching reading, writing and oral language skills specific to individual disciplines. |  | **English:** Consistent modelling of Standard English and high-quality interactions with learners; taking opportunities to model to learners the thinking and decision-making processes involved in reading and writing across the curriculum  **Mathematics:** Reflecting the use of language in mathematics teaching  **Science:** discussion and peer dialogue to facilitate a co-constructed understanding.  **Art:** eg. talking about art is central to learning in the subject  **Computing:**  **Humanities:**  **Modern Languages:** Grammatical terminology, language learning strategies for reading, writing, listening and speaking  **Music:**  **PE:** Developing pupils’ reading, writing, reading and listening skills through pair/small group work tasks and homework tasks.  **Teaching and Learning Pathway:**   * Dialogic teaching |  |

|  |  |
| --- | --- |
| **Subject and Curriculum (Standard 3 – ‘Demonstrate good subject and curriculum knowledge’)** | |
| **Learn how to…** | **SBW** |
| **Deliver a carefully sequenced and coherent curriculum, by:**   * Receiving clear, consistent and effective mentoring in how to identify essential concepts, knowledge, skills and principles of the subject. * Observing how expert colleagues ensure pupils’ thinking is focused on key ideas within the subject and deconstructing this approach. * Discussing and analysing with expert colleagues the rationale for curriculum choices, the process for arriving at current curriculum choices and how the school’s curriculum materials inform lesson preparation.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Providing opportunity for all pupils to learn and master essential concepts, knowledge, skills and principles of the subject. * Working with expert colleagues to accumulate and refine a collection of powerful analogies, illustrations, examples, explanations and demonstrations. * Using resources and materials aligned with the school curriculum (e.g. textbooks or shared resources designed by expert colleagues that carefully sequence content). * Being aware of common misconceptions and discussing with expert colleagues how to help pupils master important concepts.   **Support pupils to build increasingly complex mental models, by:**   * Discussing and analysing with expert colleagues how to revisit the big ideas of the subject over time and teach key concepts through a range of examples. * Discussing and analysing with expert colleagues how they balance exposition, repetition, practice of critical skills and knowledge.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Drawing explicit links between new content and the core concepts and principles in the subject.   **Develop fluency, by:**   * Observing how expert colleagues use retrieval and spaced practice to build automatic recall of key knowledge and deconstructing this approach.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Providing tasks that support pupils to learn key ideas securely (e.g. quizzing pupils so they develop fluency with times tables).   **Help pupils apply knowledge and skills to other contexts, by:**   * Observing how expert colleagues interleave concrete and abstract examples, slowly withdrawing concrete examples and drawing attention to the underlying structure of problems and deconstructing this approach.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Ensuring pupils have relevant domain-specific knowledge, especially when being asked to think critically within a subject.   **Develop pupils’ literacy, by:**   * Observing how expert colleagues demonstrate a clear understanding of systematic synthetic phonics, particularly if teaching early reading and spelling, and deconstructing this approach. * Discussing and analysing with expert colleagues how to support younger pupils to become fluent readers and to write fluently and legibly. * Receiving clear, consistent and effective mentoring in how to model reading comprehension by asking questions, making predictions, and summarising when reading. * Receiving clear, consistent and effective mentoring in how to promote reading for pleasure (e.g. by using a range of whole class reading approaches and regularly reading high-quality texts to children). * Discussing and analysing with expert colleagues how to teach different forms of writing by modelling planning, drafting and editing.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Teaching unfamiliar vocabulary explicitly and planning for pupils to be repeatedly exposed to high-utility and high-frequency vocabulary in what is taught. * Modelling and requiring high-quality oral language, recognising that spoken language underpins the development of reading and writing (e.g. requiring pupils to respond to questions in full sentences, making use of relevant technical vocabulary). | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs.  *ML Framework Task*  *PE Framework Task*  *Mathematics Framework Task* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Classroom Practice (Standard 4 – ‘Plan and teach well-structured lessons’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 4.1 Effective teaching can transform pupils’ knowledge, capabilities and beliefs about learning. | Educational Theory  Curriculum Design  Child Development | **English:** Planning as an iterative and recursive process with reflection at its core, planning creatively for pupil progress using CLPE guidelines and our SSP scheme of work  **Mathematics:** Designing learning activities and devising key questions to ask during lessons  **Science:** Planning to facilitate children working scientifically and how they learn to become independent young scientists  **Art:** effective teaching is underpinned by good subject, pedagogical and curriculum knowledge  **Computing:**  **Humanities:** Understanding of worldviews and impact of these on learning and definitions of knowledge.  **Modern Languages:** Planning models; PPP and MMM (moving learners from dependence towards independence  **Music:** Promote a love and curiosity of music by exploring performing, listening, reviewing and evaluating. Understand and explore how music is created, produced and communicated. Explore cross-curricular links between music and other areas of the curriculum  **PE:** Strong teacher subject knowledge facilitates effective teaching and pupils’ learning in PE.  **Teaching and Learning Pathway:**   * Intercultural Understanding * Authentic resources * Using stories as stimulus | **Purpose of Education** - Curriculum |
| 4.2 Effective teachers introduce new material in steps, explicitly linking new ideas to what has been previously studied and learned. | Educational Theory | **English:** Weekly planning, peer teaching and evaluating episodes of Systematic Synthetic Phonics; planning for guided and shared reading at KS1/2; planning for guided and shared writing at 1KS1/2. Reading assessment task,peer teaching of grammar subject knowledge  **Mathematics:** Weekly planning for place value, subtraction, multiplication and divisions in KS1/2, discussing resources/textbooks and planning schemes used in schools  **Science:** How to plan and deliver forensics lesson, reflection on statutory frameworks, including the NC  **Art:** teacher demos are essential to effective art teaching  **Computing:**  **Humanities:** Peer teaching of one religion - careful planning and structure of the lesson, discussing planning P4C lessons. Peer teaching using Digimaps - discuss progression in mapping skills and use in school environment  **Modern Languages:** Effective sequencing  **Music:** Foster learning links and webs throughout practical music making  **PE:** Using teacher demonstrations and modelling and collaborative/peer teaching in pairs and/or small group work.  **Teaching and Learning Pathway:**   * Planning for creative and engaging lessons |  |
| 4.3 Modelling helps pupils understand new processes and ideas; good models make abstract ideas concrete and accessible. | Educational Theory | **English:** Metacognitive scripts that teachers employ when teaching shared and guided reading and writing; promoting reading and writing as meaning making activities  **Mathematics:**  **Science:** Modelling in space, analogies in electricity, lecture on children’s learning – from concrete to abstract.  **Art:** (as 4.2)  **Computing: s**tarting with Scratch as a programming platform  **Humanities:** Enquiry model for learning.  **Modern Languages:** Planning models; PPP and MMM (moving learners from dependence towards independence)  **Music:** Confidently model music making and promote a deep interest and ove of the subject  **PE:** Using concise and precise teacher demonstrations and modelling to enhance pupil understandings in PE.  **Teaching and Learning Pathway:**   * Planning model - moving learners from dependence towards independence |  |
| 4.4 Guides, scaffolds and worked examples can help pupils apply new ideas, but should be gradually removed as pupil expertise increases. | Educational Theory | **English:** Use of CLPE lesson plans from high-quality children’s literature as models to inspire independent lesson planning  **Mathematics:**  **Science: use of models and practical experience. Learning through enquiry.**  **Art:** no – in art visual exemplification and modelling is always important  **Computing:**  **Humanities:** Planning a sequence of geography lessons on river source to sea - accounting for progression of pupils' understanding  **Modern Languages:** Planning models; PPP and MMM (moving learners from dependence towards independence)  **Music:** Model confidently for the children and allow time and space for creativity and exploration in sound  **PE:** Using scaffolded activities, accurate teacher demonstrations and other visual illustrations are crucial in introducing new PE knowledge, skills and ideas to pupils. T **Teaching and Learning Pathway:**   * Using knowledge organisers. * Bruner and scaffolding |  |
| 4.5 Explicitly teaching pupils metacognitive strategies linked to subject knowledge, including how to plan, monitor and evaluate, supports independence and academic success. | Educational Theory  Curriculum design | **English:** The importance of the metacognitive commentary to explain writing choices that teachers use when modelling writing (shared, guided) in front of pupils  **Mathematics:**  **Science:** evaluation session at the end of seminars. Live discussions of conceptual science  **Art:** importance of thinking aloud and teacher modelling of vocab etc.  **Computing:**  **Humanities:**  **Modern Languages: L**anguage learning strategies  **Music:** Encourage children to evaluate and review all aspects of their music making  **PE:** Encouraging pupils to plan, perform and critically evaluate their own and others’ performances/work in PE. | **Learning** -Assessment for Learning |
| 4.6 Questioning is an essential tool for teachers; questions can be used for many purposes, including to check pupils’ prior knowledge, assess understanding and break down problems. | Educational Theory | **English:** Use of Barrett’s taxonomy (e.g. shared and guided reading) to develop higher order questioning skills  **Mathematics:**  **Science:** Using children’ questions in science (a “buzz board”). Science enquiry  **Art:** formative assessment requires sensitive and thoughtful teacher questioning  **Computing:** active AfL, reflection in action.  **Humanities:** Effective questioning in the enquiry process  **Modern Languages:** Effective graded questioning  **Music:** Promote high-quality questioning during practical music making to develop deeper concepts and understanding  **PE:** Planning and posing questions carefully and sensitively to assess pupils’ knowledge and understandings.  **Teaching and Learning Pathway:**   * Oracy and graded questioning * Bloom’s taxonomy | **Learning** - Assessment for Learning |
| 4.7 High-quality classroom talk can support pupils to articulate key ideas, consolidate understanding and extend their vocabulary. | Educational Theory  Adaptive teaching | **English:** High-quality classroom interaction is modelled in all sessions. The importance of oracy as a foundational skill. Critically examining the traditional IRF model of classroom interaction  **Mathematics:**  **Science:**  opportunities to talk through ideas and consolidate understanding, with a focus on sound questioning modelling oracy skills.  **Art:** discussing artworks and ideas is key to learning in the subject  **Computing:**  **Humanities:** Discussions in philosophy for Children P4C session  **Modern Languages:** Modelling scaffolded group and paired talk  **Music:** Foster high quality opportunities for talk for learning in all aspects of practical music making.  **PE:** Promoting discussion in PE is important for pupil learning.  **Teaching and Learning Pathway:**   * Dialogic teaching, scaffolding paired and group talk |  |
| 4.8 Practice is an integral part of effective teaching; ensuring pupils have repeated opportunities to practise, with appropriate guidance and support, increases success. | Educational Theory | **English:**  **Mathematics:**  **Science:** practical experience and practice, for instance using electrical circuits.  **Art:** eg. hands-on activities are essential for haptic learning  **Computing: n/a**  **Humanities:**  **Modern Languages:** Planning models (PPP and MMM)  **Music:** Encourage practice and perseverance with performance and composition  **PE:** Practice is crucial for successful pupil learning in PE, especially practising in pairs and/or small groups.  **Teaching and Learning Pathway:**   * Behaviourist approaches to teaching |  |
| 4.9 Paired and group activities can increase pupil success, but to work together effectively pupils need guidance, support and practice. | Educational Theory  Adaptive teaching | **English:**  **Mathematics:**  **Science:** Peer teaching (human body) and peer learning (all sessions)  **Art:** art making is not only an individual activity - collaborative creativity is to be encouraged  **Computing:**  **Humanities:** Group work modelled in enquiry process  **Modern Languages:** Modelling group and paired speaking, scaffolding  **Music:** Foster collaboration in the making  **PE:** Teacher demonstration and modelling of paired and/or small group tasks is crucial to pupil success.  **Teaching and Learning Pathway:**   * pedagogy of speaking and listening |  |
| 4.10 How pupils are grouped is also important; care should be taken to monitor the impact of groupings on pupil attainment, behaviour and motivation. | Educational Theory  Adaptive teaching | **English:** Developing an understanding of the role of groupings in the teaching of English  **Mathematics:**  **Science:** discussion on ‘ability’ groups in science.  **Art:** behavioural considerations are important eg. re. health and safety  **Computing: n/a**  **Humanities:** Group work in enquiry process  **Modern Languages:**  **Music:** Foster collaboration in the making  **PE:** Developing an understanding of the purpose, role and practical application of group work in the teaching of PE.  **Teaching and Learning Pathway:**   * How to group pupils with SEND and EAL |  |
| 4.11 Homework can improve pupil outcomes, particularly for older pupils, but it is likely that the quality of homework and its relevance to main class teaching is more important than the amount set. | Educational Theory | **English:** Develop an understanding of the role of parents in supporting pupils as they learn to read and write  **Mathematics:**  **Science:** the importance of engaging with parents, carers and community.  **Art:** eg. sketchbooks activities can be completed at home  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:**  **PE:** Encouraging meaningful homework tasks for pupils in PE (e.g. reflective tasks) and understanding the role of parents in supporting pupil learning in PE. |  |

|  |  |
| --- | --- |
| **Classroom Practice (Standard 4 – ‘Plan and teach well-structured lessons’)** | |
| **Learn how to…** | **SBW** |
| **Plan effective lessons, by:**   * Observing how expert colleagues break tasks down into constituent components when first setting up independent practice (e.g., using tasks that scaffold pupils through meta-cognitive and procedural processes) and deconstructing this approach.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Using modelling, explanations, and scaffolds, acknowledging that novices need more structure early in a domain. * Enabling critical thinking and problem solving by first teaching the necessary foundational content knowledge. * Removing scaffolding only when pupils are achieving a high degree of success in applying previously taught material. * Providing sufficient opportunity for pupils to consolidate and practise applying new knowledge and skills.   **Make good use of expositions, by:**   * Discussing and analysing with expert colleagues how to use concrete representation of abstract ideas (e.g. making use of analogies, metaphors, examples and non-examples).   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Starting expositions at the point of current pupil understanding. * Combining a verbal explanation with a relevant graphical representation of the same concept or process, where appropriate.   **Model effectively, by:**   * Discussing and analysing with expert colleagues how to make the steps in a process memorable and ensuring pupils can recall them (e.g. naming them, developing mnemonics, or linking to memorable stories).   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Narrating thought processes when modelling to make explicit how experts think (e.g. asking questions aloud that pupils should consider when working independently and drawing pupils’ attention to links with prior knowledge). * Exposing potential pitfalls and explaining how to avoid them.   **Stimulate pupil thinking and check for understanding, by:**   * Discussing and analysing with expert colleagues how to consider the factors that will support effective collaborative or paired work (e.g. familiarity with routines, whether pupils have the necessary prior knowledge and how pupils are grouped). * Receiving clear, consistent and effective mentoring in how to provide scaffolds for pupil talk to increase the focus and rigour of dialogue.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Planning activities around what you want pupils to think hard about. * Including a range of types of questions in class discussions to extend and challenge pupils (e.g. by modelling new vocabulary or asking pupils to justify answers). * Providing appropriate wait time between question and response where more developed responses are required. | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs.  *Challenging the Gap Framework Task*  *ML Framework Task*  *PE Framework Task*  *Mathematics Framework Task* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Adaptive Teaching (Standard 5 – ‘Adapt teaching’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 5.1 Pupils are likely to learn at different rates and to require different levels and types of support from teachers to succeed. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Inclusive pedagogy modelled through rich and diverse literacy environments, including provision of human and non-human resources (including Mantra Lingua, Barrington Stoke, Tamarind Books).  **Mathematics:** Inclusive practiced modelled in mathematics sessions by differentiating activities. Information provided for mathematics teaching for various educational needs  **Science:** Peer teaching to support all abilities  **Art**: eg. practical considerations highlighted in demonstrations  **Computing:**  **Humanities:** Inclusive practice modelled in geography sessions on world connections and prior knowledge. ‘Adapting to all pupils’ thread throughout the module with easily accessible resources and engaging interactive activities employed  **Modern Languages:** ML inclusive pedagogy, language learning theory  **Music:** Encourage children to explore the musical world around them  **PE:** Inclusive practices modelled in PE.  **Teaching and Learning Pathway:**   * Adaptive teaching as a thread throughout sessions | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |
| 5.2 Seeking to understand pupils’ differences, including their different levels of prior knowledge and potential barriers to learning, is an essential part of teaching. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Reading assessment task: reflecting on the importance of pitching books to pupils' instruction level of reading  **Mathematics:** Investigating pupils' misconceptions in maths, discussions how to support learning of mathematics for particular needs  **Science:** individual confidences self-assessed in audit & action plan. Lesson build on prior knowledge.  **Art:** individual interests and capabilities should be carefully considered  **Computing:**  **Humanities:** Assessing pupil’s prior knowledge, ethno-knowledge, and building on this within humanities, enabling access to all regardless of background.  **Modern Languages:** Understanding barriers to learning in ML  **Music:** Explore how to differentiate appropriately, using approaches which enable all pupils to be taught music effectively  **PE:** Understanding and celebrating individual pupil interests, differences and capabilities.  **Teaching and Learning Pathway:**   * Understanding barriers to learning | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |
| 5.3 Adapting teaching in a responsive way, including by providing targeted support to pupils who are struggling, is likely to increase pupil success. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Adapting lessons ‘in the moment’ in order to respond to pupils’ misconceptions or developmental need  **Mathematics:**  **Science:** Inclusive education demonstrated in practical situations  **Art:** teacher observation is central to adaptive and responsive teaching  **Computing:**  **Humanities:** Adapting lessons to support and challenge learners  **Modern Languages:** Adapting lessons to support and challenge learners  **Music:** Promote inclusive practical work  **PE:** Adapting lessons to support and challenge learners.  **Teaching and Learning Pathway:**   * Understanding adaptive teaching and targeted support | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |
| 5.4 Adaptive teaching is less likely to be valuable if it causes the teacher to artificially create distinct tasks for different groups of pupils or to set lower expectations for particular pupils. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Ensuring that teacher modelling and scaffolding is linked to pupils’ need  **Mathematics:**  **Science:** modelling AfL and setting challenges where needed.  **Art:** adaptation is more likely to be by expectations of outcome **-** eg use of levels of challenge: must, should, could  **Computing:** differentiated by outcome  **Humanities:** Reflect on practice - what the trainees have seen and examples of good practice shared in each group  **Modern Languages:** scaffolding in ML  **Music:** Allow children to work independently and creatively  **PE:** Ensuring that teacher demonstrations and modelling and scaffolding of pupil activities meet pupil needs.  **Teaching and Learning Pathway:**   * Adaptive teaching, scaffolding | Adaptation To Needs and Contexts: Policies For Meeting Individual Needs |
| 5.5 Flexibly grouping pupils within a class to provide more tailored support can be effective, but care should be taken to monitor its impact on engagement and motivation, particularly for low attaining pupils. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:**  **Mathematics:**  **Science:**  **Art:** pupil groupings can be made for various reasons – should be flexible  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:** Plan for a variety of grouping for learning during practical music  **PE:** Ensuring that pupils are grouped in PE according to their diverse needs and interests and no more than 4 in each group.  **Teaching and Learning Pathway:**   * Grouping for pupils with EAL and SEND and it’s impact * Research on impact of intervention groups and use of TAs | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |
| 5.6 There is a common misconception that pupils have distinct and identifiable learning styles. This is not supported by evidence and attempting to tailor lessons to learning styles is unlikely to be beneficial. | Child Development  Educational Theory  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Critically examining the myth of learning styles  **Mathematics:**  **Science:** modelling multi-modal methods.  **Art:** eg.the visual domain is powerful in communication, not only in art  **Computing:**  **Humanities:**  **Modern Languages:** oracy, literacy  **Music:** Explore and address misconceptions throughout practical work  **PE:** Critically discussing and debating learning styles.  **Teaching and Learning Pathway:**   * Teaching about Neuro myths | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |
| 5.7 Pupils with special educational needs or disabilities are likely to require additional or adapted support; working closely with colleagues, families and pupils to understand barriers and identify effective strategies is essential. | Child Development  SEND  EAL  Addressing issues of gender and social inequality  Preparing to teach pupils from all backgrounds  Seminar Day 3 - ‘Adaptive Teaching’ | **English:** Adapting pedagogy according to pupils’ needs. Collaboration with parents and other agencies where necessary to set long-term goals and expectations  **Mathematics:**  **Science:**  **Art:** consideration should always be made of pupils’ needs  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:** Promote inclusive practical work for all children  **PE:** Adapting teaching to individual pupil needs in PE.  **Teaching and Learning Pathway:**   * Role of community in education (Bronfenbrenner) | Adaptation To Needs and Contexts: Policies for Meeting Individual Needs |

|  |  |
| --- | --- |
| **Adaptive Teaching (Standard 5 – ‘Adapt teaching’)** | |
| **Learn how to…** | **SBW** |
| **Develop an understanding of different pupil needs, by:**   * Receiving clear, consistent and effective mentoring in supporting pupils with a range of additional needs, including how to use the SEND Code of Practice, which provides additional guidance on supporting pupils with SEND effectively.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Identifying pupils who need new content further broken down. * Making use of formative assessment. * Working closely with the Special Educational Needs Co-ordinator (SENCO) and special education professionals and the Designated Safeguarding Lead (DSL) under supervision of expert colleagues.   **Provide opportunity for all pupils to experience success, by:**   * Observing how expert colleagues adapt lessons, whilst maintaining high expectations for all, so that all pupils have the opportunity to meet expectations and deconstructing this approach. * Discussing and analysing with expert colleagues how to balance input of new content so that pupils master important concepts.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Making effective use of teaching assistants and other adults in the classroom under supervision of expert colleagues. * Meet individual needs without creating unnecessary workload, by: * Discussing and analysing with expert colleagues how they decide whether intervening within lessons with individuals and small groups would be more efficient and effective than planning different lessons for different groups of pupils.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Making use of well-designed resources (e.g. textbooks). * Planning to connect new content with pupils' existing knowledge or providing additional pre-teaching if pupils lack critical knowledge * Building in additional practice or removing unnecessary expositions. * Reframing questions to provide greater scaffolding or greater stretch.   **Group pupils effectively, by:**   * Discussing and analysing with expert colleagues how the placement school changes groups regularly, avoiding the perception that groups are fixed. * Discussing and analysing with expert colleagues how the placement school ensures that any groups based on attainment are subject specific.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Applying high expectations to all groups, and ensuring all pupils have access to a rich curriculum. | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs.  *Challenging the Gap Framework Task*  *SEND Framework Task*  *EAL Framework Task* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment (Standard 6 – ‘Make accurate and productive use of assessment’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 6.1 Effective assessment is critical to teaching because it provides teachers with information about pupils’ understanding and needs. |  | **English:** Assessment for learning via questioning and diagnostic marking; how this feeds into planning. Understanding NC terms of assessment  **Mathematics:** Assessment for learning via questioning, analysing pupils' misconceptions, evaluating problem solving strategies  **Science:** Scientific 'buzz board' to assess children's prior knowledge and learning  **Art:** emphasis on process - formative assessment opportunities  **Computing:** AfL in practice  **Humanities:** Assessment with peer teaching and examples provided  **Modern Languages:** assessing the 4 skills  **Music:** Explore the use of formative and summative assessment in music to secure pupils’ progress  **PE:** Assessment for learning and assessment of learning using formative assessment (peer assessment) and summative assessment (pre & post pupil assessment).  **Teaching and Learning Pathway:**   * assessment and planning for progression | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.2 Good assessment helps teachers avoid being over-influenced by potentially misleading factors, such as how busy pupils appear. |  | **English:** Use of high-quality questioning to assess pupils’ progress and suitability/pitch of activities  **Mathematics:**  **Science:** motivate using exciting and pertinent lessons and content. Assess through multiple means, for instance concept maps for Earth and Space.  **Art:** assessment in art is ongoing and supported by careful documentation  **Computing:**  **Humanities:** Enquiry process group work enabling all to participate.  **Modern Languages:**  **Music:** Involve the children in the assessment process and refinement and practice of ideas and concepts. Draw on AfL principles.  **PE:** Engaging pupils as well as the teachers in the assessment process (e.g. peer assessment).  **Teaching and Learning Pathway:**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.3 Before using any assessment, teachers should be clear about the decision it will be used to support and be able to justify its use. | **Curriculum design** | **English:** Reading assessment task: providing reading materials which match pupils' interests, abilities and cognitive understanding  **Mathematics:**  **Science:** Assessing understanding through questioning; addressing misconceptions, checking understanding; use of concept maps  **Art:** assessment should be linked to learning intentions  **Computing:**  **Humanities:** Use of questioning to assess pupils understanding and reveal ethno-knowledge.  **Modern Languages:**  **Music:**  Link assessment to short and medium term planning  **PE:** Assessment in PE is always linked to the pupil learning objectives. **Teaching and Learning Pathway:**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.4 To be of value, teachers use information from assessments to inform the decisions they make; in turn, pupils must be able to act on feedback for it to have an effect. |  | **English:** Written and oral feedback to pupils during lessons; providing time in lessons for pupils to engage with feedback  **Mathematics:** Exploring pupils' attainments in SATs tests, effective questioning for higher order thinking in maths  **Science:** written and oral feedback – in particular for peer teaching.  **Art:** dispel myth that ‘you are either good or not good at art’ - pupils need to know how to improve through teacher, peer and self-evaluation  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:** Encourage the children to talk about their own work and achievements in practicalwork.  **PE:** Written and oral feedback (positive & specific/corrective) to pupils during lessons and providing time for them to act on the feedback given.  **Teaching and Learning Pathway**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.5 High-quality feedback can be written or verbal; it is likely to be accurate and clear, encourage further effort, and provide specific guidance on how to improve. |  | **English:** Ensuring that written feedback is legible and clear; providing time in lessons for pupils to engage with feedback  **Mathematics:**  **Science:** this also includes discourse on pupils drawings, floorbooks, artwork.  **Art:** eg. purposeful dialogue in the art classroom is central to learning  **Computing:**  **Humanities:** marking against humanities criteria rather than purely literacy.  **Modern Languages:**  **Music:** Use innovative ways to assess practical music making. Such as video, sound recording and web-based technologies  **PE:** Dialogic feedback to pupils on their performances/work is crucial to their learning.  **Teaching and Learning Pathway**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.6 Over time, feedback should support pupils to monitor and regulate their own learning. |  | **English:** High-quality modelling of classroom interaction, including giving and receiving peer-to-peer feedback; providing time for this in plenaries  **Mathematics:**  **Science:**  **Art:** older pupils can take more responsibility for their learning – eg research work to inform making  **Computing:**  **Humanities:** questioning employed to assist pupils’ development.  **Modern Languages:** Language learning strategies  **Music:** Involve the children in our specs of the assessment process.  **PE:** Developing pupil autonomy and independence through teacher and pupil feedback.  **Teaching and Learning Pathway**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| 6.7 Working with colleagues to identify efficient approaches to assessment is important; assessment can become onerous and have a disproportionate impact on workload. |  | **English:** Taking agency of learning about assessment; proactive participation in class/year-group moderation of pupils’ work  **Mathematics:**  **Science:** creative assessment in science, for instance using floorbooks or artwork  **Art:** expectations should be high for all learners, with consistently appropriate standards across the school (clear progression)  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:** Ensure assessment is manageable, practical and appropriate.  **PE:** Meaningful discussions with fellow teachers about the relevance, setting, marking, feedback and moderation of pupil assessed work in PE.  **Teaching and Learning Pathway**   * assessment and planning for progression * formative and summative assessment and its uses | **Learning:** Assessment for Learning  Expectationsand Target Setting |
| **Assessment (Standard 6 – ‘Make accurate and productive use of assessment’)** | | | |
| **Learn how to…** | | **SBW** | |
| **Avoid common assessment pitfalls, by:**   * Discussing and analysing with expert colleagues how to plan formative assessment tasks linked to lesson objectives and think ahead about what would indicate understanding (e.g. by using hinge questions to pinpoint knowledge gaps). * Discussing and analysing with expert colleagues how to choose, where possible, externally validated materials, used in controlled conditions when required to make summative assessments.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Drawing conclusions about what pupils have learned by looking at patterns of performance over a number of assessments with support and scaffolding from expert colleagues (e.g. appreciating that assessments draw inferences about learning from performance). * Check prior knowledge and understanding during lessons, by: * Receiving clear, consistent and effective mentoring in how to structure tasks and questions to enable the identification of knowledge gaps and misconceptions (e.g. by using common misconceptions within multiple-choice questions).   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Using assessments to check for prior knowledge and pre-existing misconceptions. * check that a correct answer stems from secure understanding. * Monitoring pupil work during lessons, including checking for misconceptions.   **Provide high-quality feedback, by:**   * Discussing and analysing with expert colleagues how pupils’ responses to feedback can vary depending on a range of social factors (e.g. the message the feedback contains or the age of the child). * Receiving clear, consistent and effective mentoring in how to scaffold self-assessment by sharing model work with pupils, highlighting key details. * Discussing and analysing with expert colleagues how to ensure feedback is specific and helpful when using peer- or self-assessment.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Focusing on specific actions for pupils and providing time for pupils to respond to feedback. * Make marking manageable and effective, by: * Receiving clear, consistent and effective mentoring in how to record data only when it is useful for improving pupil outcomes. * Discussing and analysing with expert colleagues to develop an understanding that written marking is only one form of feedback. * Discussing and analysing with expert colleagues how to identify efficient approaches to marking and alternative approaches to providing feedback (e.g. using whole class feedback or well supported peer- and self-assessment) and deconstructing this approach.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Using verbal feedback during lessons in place of written feedback after lessons where possible. * Reducing the opportunity cost of marking (e.g. by using abbreviations and codes in written feedback). * Prioritising the highlighting of errors related to misunderstandings, rather than careless mistakes when marking. | | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs. | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Managing Behaviour (Standard 7 – ‘Manage behaviour effectively’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 7.1 Establishing and reinforcing routines, including through positive reinforcement, can help create an effective learning environment. | Child Development  Behaviour | **English:** Appropriate classroom behaviour modelled by tutors. Health and safety, risk assessment and BM implications for less formal practice, e.g. role play, storytelling, performance poetry  **Mathematics:** Modelled by tutors, e.g. resource management, transitions from one activity to another, etc.  **Science:** Risk assessment and safe boundaries inside and outside of the classroom  **Art:** Appropriate classroom and behaviour management constantly modelled, including essential health and safety considerations  **Computing:**  **Humanities:** Modelled by tutors - e.g. emphasis on using artefacts - handling especially with difference between RE and Historical artefacts. Discussion on fieldtrips and use of resources on tables  **Modern Languages:** Target language for classroom routines.  **Music:** Foster high expectations for behaviour in practical music making and explore how best to do this when teaching whole class, small groups and individual children  **PE:** Appropriate classroom and pupil behaviour modelled by tutors (e.g. rules & routines).  **Teaching and Learning Pathway:**   * Theories of motivation and behaviour | **Learning** - Behaviour and Classroom Management |
| 7.2 A predictable and secure environment benefits all pupils but is particularly valuable for pupils with special educational needs. | Child Development  Behaviour  SEND | **English:** Appropriate classroom behaviour modelled by tutors; the importance of valuing contributions from all pupils, regardless of learning need  **Mathematics:**  **Science:** the importance of feeling safe and secure enough to enquire and explore freely.  **Art:** the art classroom should support wellbeing for all  **Computing:**  **Humanities:** creating a safe environment respecting all.  **Modern Languages:**  **Music:** Foster a positive and safe environment for practical music. Children are encouraged to explore and work creatively.  **PE:** Appropriate classroom and pupil behaviour modelled by tutors (e.g. rules & routines).  **Teaching and Learning Pathway:**   * Adaptive teaching * Behaviour and classroom management | L**earning** - Behaviour and Classroom Management  **Welfare** - Safeguarding and Pastoral Systems |
| 7.3 The ability to self-regulate one’s emotions affects pupils’ ability to learn, success in school and future lives. | Child Development  Behaviour | **English:** The importance of literature to develop pupils’ empathy for and understanding of groups other than themselves  **Mathematics:**  **Science:** promoting exploratory discourse  **Art:** art making can be a valuable outlet for emotion and a good way to understand others  **Computing:**  **Humanities:**  **Modern Languages:** Language learning strategies, affective filter  **Music:** Promote positive values  **PE:** Promoting pupil self-confidence, self-esteem and self-control in PE.  **Teaching and Learning Pathway:**   * Behaviour management | **Learning** - Behaviour and Classroom Management |
| 7.4 Teachers can influence pupils’ resilience and beliefs about their ability to succeed, by ensuring all pupils have the opportunity to experience meaningful success. | Child Development  Behaviour  Educational Theory | **English:** The importance of a diverse language and literature-rich curriculum which speaks to pupils’ lives and in which they feel seen  **Mathematics:**  **Science:** a significant amount of achievable challenge, emerging from real life issues (the climate crisis, for instance)  **Art:** all activities should balance challenge with achievable objectives  **Computing:** celebrating each other’s work  **Humanities:** use of authentic praise for humanities skills developed and knowledge not only retained but employed.  **Modern Languages:** Language learning strategies, modelling confidence and curiosity in ML, planning  **Music:** Provide opportunities for performance for all learners  **PE:** Encouraging pupils in PE to be positive, be fair, to know what’s right and wrong and how to cope with winning and losing/success and failure.  **Teaching and learning Pathway:**   * Motivation and behaviour | **Learning** - Behaviour and Classroom Management |
| 7.5 Building effective relationships is easier when pupils believe that their feelings will be considered and understood. | Child Development  Behaviour | **English:** Literature as empathy  **Mathematics:**  **Science: l**ooking through children’s eyes (Buzz board) and a humanist grounding.  **Art:** affective dimension to learning in the subject is as important as effective  **Computing:**  **Humanities:** Modelled in P4C session.  **Modern Languages:** modelling confidence, resilience and curiosity in ML  **Music:** Explore children's music  **PE:** Understanding pupils (e.g. interests, limitations etc) and how they think and learn in PE.  **Teaching and learning Pathway:**   * Motivation and behaviour | **Learning** - Behaviour and Classroom Management  **Welfare** - Safeguarding and Pastoral Systems |
| 7.6 Pupils are motivated by intrinsic factors (related to their identity and values) and extrinsic factors (related to reward). | Child Development  Behaviour | **English:** Garnering pupils’ interests by offering them a curriculum in which they feel valued and seen  **Mathematics:**  **Science:** grounding science in real-life issues, that matter to children.  **Art:** the art curriculum should be inclusive and inviting for all  **Computing:**  **Humanities:** Building on the pupils’ interest – setting up the enquiry questions.  **Modern Languages:** culture, modelling confidence, resilience and curiosity in ML  **Music:** Music important to you  **PE:** Planning engaging, interactive and inspiring lessons that motivate pupils to learn in PE.  **Teaching and learning Pathway:**   * Motivation and behaviour |  |
| 7.7 Pupils’ investment in learning is also driven by their prior experiences and perceptions of success and failure. | Child Development  Behaviour  Educational Theory  Addressing issues of gender and social inequality | **English:** Explicitly valuing pupils’ ethno-knowledge to create a safe and stimulating learning environment  **Mathematics:**  **Science:** nurturing a confidence and excitement about science; an appreciation of where science might take us.  **Art:** creating a positive attitude to the subject and a ‘can do’ disposition  **Computing:**  **Humanities:** Valuing ethno-knowledge enables pupils’ to feel included and creates safe environment which builds on failures and celebrates successes.  **Modern Languages:** culture, modelling confidence, resilience and curiosity in ML  **Music:** Promote a love for music.  **PE:** Encouraging a positive attitude, self-confidence and a love of learning in PE.  **Teaching and learning Pathway:**   * Motivation and behaviour |  |

|  |  |
| --- | --- |
| **Managing Behaviour (Standard 7 – ‘Manage behaviour effectively’)** | |
| **Learn how to…** | **SBW** |
| **Develop a positive, predictable and safe environment for pupils, by:**   * Receiving clear, consistent and effective mentoring in how to respond quickly to any behaviour or bullying that threatens emotional safety.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Establishing a supportive and inclusive environment with a predictable system of reward and sanction in the classroom. * Working alongside colleagues as part of a wider system of behaviour management (e.g. recognising responsibilities and understanding the right to assistance and training from senior colleagues). * Giving manageable, specific and sequential instructions. * Checking pupils’ understanding of instructions before a task begins. * Using consistent language and non-verbal signals for common classroom directions. * Using early and least-intrusive interventions as an initial response to low level disruption.   **Establish effective routines and expectations, by:**   * Discussing and analysing with expert colleagues how routines are established at the beginning of the school year, both in classrooms and around the school.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Creating and explicitly teaching routines in line with the school ethos that maximise time for learning (e.g. setting and reinforcing expectations about key transition points). * Reinforcing established school and classroom routines   **Build trusting relationships, by:**   * Discussing and analysing with expert colleagues effective strategies for liaising with parents, carers and colleagues to better understand pupils’ individual circumstances and how they can be supported to meet high academic and behavioural expectations.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Responding consistently to pupil behaviour. * Engaging parents, carers and colleagues with support (e.g. discussing a script) from expert colleagues and mentors both in formal and informal settings.   **Motivate pupils, by:**   * Observing how expert colleagues support pupils to master challenging content, which builds towards long-term goals and deconstructing this approach. * Discussing and analysing with expert colleagues how experienced colleagues provide opportunities for pupils to articulate their long-term goals and helping them to see how these are related to their success in school. * Discussing and analysing with expert colleagues how to support pupils to journey from needing extrinsic motivation to being motivated to work intrinsically. | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Professional Behaviours (Standard 8 – ‘Fulfil wider professional responsibilities’)** | | | |
| **Learn that…** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy: Curriculum Studies and Pathway** | **Professional Studies** |
| 8.1 Effective professional development is likely to be sustained over time, involve expert support or coaching and opportunities for collaboration. | The Exeter Model | **English:** The importance of being proactive in learning about school marking and other assessment procedures, planning expectations, and use of other adults. The importance of collaborative teamwork  **Mathematics: Mathematics Framework Task, e**ncouraging teamwork by using thinking together approaches, importance of being proactive  **Science:** developing a scientific community of practice, the importance our own scientific culture and understanding. Encouragement of CPD, and in particular, evidence-based CPD.  **Art:** further opportunities for CPD in the subject should be taken up whenever and wherever possible – eg. encouraging partnership projects with artists/ galleries  **Computing:** links to CAS and other computing associations.  **Humanities:** Encourage teamwork - modelled in peer teaching - build on each other's and pupils' prior learning. Emphasis on ethno-knowledge of all staff and pupils as a resource for the Humanities  **Modern Languages:**  **Music: P**ractice, rehearse, refine, evaluate.  **PE: PE Framework Task**, encouraging CPD-led activities (e.g. attending accredited short courses, collaborative/peer teaching with experts such as subject leads, sports coaches and/or PE teachers).  **Teaching and Learning Pathway:**  Pathway assignment including a developing understanding of CPRT materials and how to engage critically with research, theory and policy | **Being a Teacher** - Continuing Professional Development |
| 8.2 Reflective practice, supported by feedback from and observation of experienced colleagues, professional debate, and learning from educational research, is also likely to support improvement. | The Exeter Model  Being a Teacher  Professionalism and Researchful Practice  Masters level practice | **English:** Giving and receiving peer feedback in peer-taught sessions  **Mathematics:**  **Science:** reflection is a key part of the course in general. Specifically science is reflected upon in journals after seminars and peer-teaching.  **Art:** reflection and evaluation skills underpin learning for teachers as well as pupils  **Computing:**  **Humanities:** Peer teaching feedback given.  **Modern Languages:**  **Music:** Develop professional relationships with visiting musicians and know how best to draw on advice and support from specialist teachers  **PE:** Collaborative/peer teaching with experts such as subject leads, sports coaches and/or PE teachers).  **Teaching and Learning Pathway:**   * Pathway assignment including a developing understanding of CPRT materials and how to engage critically with research, theory and policy |  |
| 8.3 Teachers can make valuable contributions to the wider life of the school in a broad range of ways, including by supporting and developing effective professional relationships with colleagues. | The Exeter Model  Being a Teacher  Professionalism and Researchful Practice | **English:** An introduction to drama and how it might be used to enrich the wider life of the school  **Mathematics:**  **Science:** developing a community of practice  **Art:** Encouragement to connect to school and local community to enhance art learning opportunities  **Computing:**  **Humanities:** Local area – build on historical, geographical and religious elements of locality of the school.  **Modern Languages:**  **Music:** Promote extracurricular musicial activity - make links to classroom learning  **PE:** Promoting and leading extra-curricular activities (e.g. in various games such as football, touch rugby, netball etc; athletics, dance etc) and inviting colleagues and parents to lead various activities.  **Teaching and Learning Pathway:**   * Bronfenbrenner’s ecological system theory * Using the local community as a teaching resource | **Being a Teacher** - Employment |
| 8.4 Building effective relationships with parents, carers and families can improve pupils’ motivation, behaviour and academic success. |  | **English:** Offering a curriculum which values and celebrates the lives and tradition of pupils’ families  **Mathematics:**  **Science:** Emphasising home-school links to promote learning  **Art:** eg. projects can bridge the home-school divide - parents learning alongside pupils  **Computing:**  **Humanities:** Links with home encouraged as sources of ethno-knowledge.  **Modern Languages:**  **Music:** Draw on the support of musical parents  **PE:** Encouraging strong teacher-parent relationships to support pupil learning.  **Teaching and Learning Pathway:**   * Bronfenbrenner’s ecological system theory   Using the local community as a teaching resource |  |
| 8.5 Teaching assistants (TAs) can support pupils more effectively when they are prepared for lessons by teachers, and when TAs supplement rather than replace support from teachers. | Reflecting on classroom practice: working with TAs  SEND | **English:** An introduction to some key English intervention programmes and how they might be delivered by a TA  **Mathematics:**  **Science:** using TA support to help with resources and assessment.  **Art:** adequate preparation of resources is essential and TAs can help with this  **Computing:**  **Humanities:** Use of TAs to support enquiry lessons.  **Modern Languages:**  **Music:** Draw on the support of musical TAs  **PE:** Involving TAs in the planning and teaching of PE lessons to support pupil learning.  **Teaching and Learning Pathway:**   * Effective use of TAs |  |
| 8.6 SENCOs, pastoral leaders, careers advisors and other specialist colleagues also have valuable expertise and can ensure that appropriate support is in place for pupils. | SEND  Being a Teacher  Professionalism and Researchful Practice | **English:** Drawing on the expertise of others to gain insight and plan for specific learning needs  **Mathematics:**  **Science:**  **Art:** meeting individual pupil needs, informed by all available information  **Computing:**  **Humanities:**  **Modern Languages:**  **Music:**  **PE:** Drawing upon the expertise of colleagues to inform the planning, teaching and learning of all pupils in PE.  **Teaching and Learnign Pathway:**   * Discussions with EAL coordinator in a successful school | **Being a Teacher** -Employment  **Welfare** - Safeguarding and Pastoral Systems |
| 8.7 Engaging in high-quality professional development can help teachers improve. | The Exeter Model  Being a Teacher  Professionalism and Researchful Practice | **English:** Opportunities for engaging with resources from CLPE and UKLA  **Mathematics:**  **Science:** using associations and CoP (e.g. ASE, PSTT)  **Art:** maximising all CPD opportunities – eg drawing on NSEAD, AccessArt, Crafts Council etc.  **Computing:** using associations and CoP (e.g. CAS)  **Humanities:** CPD opportunities and membership – NATRE, GA and HA advertised and encourage to the group.  **Modern Languages:**  **Music:** Understand the importance of reflection on practice and continuing CPD in music  **PE:** Exploring all CPD opportunities for development and improvement (e.g. membership of a PE/subject association, attending accredited PE-related short courses, postgraduate study etc).  **Teaching and Learning Pathway:**   * Preparing for your ECT years | **Welfare** - Safeguarding and Pastoral Systems |

|  |  |
| --- | --- |
| **Professional Behaviours (Standard 8 – ‘Fulfil wider professional responsibilities’)** | |
| **Learn how to…** | **SBW** |
| **Develop as a professional, by:**   * Receiving clear, consistent and effective mentoring in how to engage in professional development with clear intentions for impact on pupil outcomes, sustained over time with built-in opportunities for practice. * Receiving clear, consistent and effective mentoring on the duties relating to Part 2 of the Teachers’ Standards.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Strengthening pedagogical and subject knowledge by participating in wider networks. * Learning to extend subject and pedagogic knowledge as part of the lesson preparation process. * Seeking challenge, feedback and critique from mentors and other colleagues in an open and trusting working environment. * Reflecting on progress made, recognising strengths and weaknesses and identifying next steps for further improvement. * Engaging critically with research and using evidence to critique practice.   **Build effective working relationships, by:**   * Discussing and analysing with expert colleagues how experienced colleagues seek ways to support individual colleagues and working as part of a team. * Observing how expert colleagues communicate with parents and carers proactively and make effective use of parents’ evenings to engage parents and carers in their children’s schooling and deconstructing this approach. * Receiving clear, consistent and effective mentoring in how to work closely with the SENCO and other professionals supporting pupils with additional needs, including how to make explicit links between interventions delivered outside of lessons with classroom teaching. * Discussing with mentor and expert colleagues how to share the intended lesson outcomes with teaching assistants ahead of lessons. * Receiving clear, consistent and effective mentoring in how to ensure that support provided by teaching assistants in lessons is additional to, rather than a replacement for, support from the teacher.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Contributing positively to the wider school culture and developing a feeling of shared responsibility for improving the lives of all pupils within the school (e.g. by supporting expert colleagues with their pastoral responsibilities, such as careers advice). * Knowing who to contact with any safeguarding concerns and having a clear understanding of what sorts of behaviour, disclosures and incidents to report. * Preparing teaching assistants for lessons under supervision of expert colleagues.   **Manage workload and wellbeing, by:**   * Observing how expert colleagues use and personalise systems and routines to support efficient time and task management and deconstructing this approach. * Discussing and analysing with expert colleagues the importance of the right to support (e.g. to deal with misbehaviour). * Protecting time for rest and recovery and being aware of the sources of support available to support good mental wellbeing.   **And - following expert input - by taking opportunities to practise, receive feedback and improve at:**   * Collaborating with colleagues to share the load of planning and preparation and making use of shared resources (e.g. textbooks). | Trainees use the Exeter Model training tools, in conjunction with consistent and effective mentoring from their LEAD MENTOR and REFLECTIVE MENTOR, to build on the expert input provided by the ‘Learn That…’ aspects of the curriculum to meet the ‘Learn how to…’ aspects at a pace and in a sequence that suits their individual needs. |

|  |  |  |
| --- | --- | --- |
| **Beyond the Core Content Framework** | | |
| **Education and Professional Studies** | **Subject Knowledge and Pedagogy** | **Professional Studies** |
| Child protection and safeguarding  Seminar Day 4: Prevent and British Values  Leadership  Masters level writing: reviewing and critiquing  the literature.  Professional and researchful practice  Being a teacher  *Interpreting Data Task*  *Optional Leadership Task*  *EPS Module Assignment*  *Pathway Assignment* | **English:** Centrality of offering a curriculum which represents and is inclusive to learners from all backgrounds, including contexts of minority diversity and EAL  **Mathematics:**  **Science:** to consider scientific values and how these vary around the world.  **Art:** To understand other cultures and explore complex questions  **Computing:**  **Humanities:** Examining treating others with dignity in work on global citizenship. Tolerance and respect for others particularly modelled in RE and geography. Intercultural communication - worldviews examined in RE including misconceptions and miscommunication  **Modern Languages:** Intercultural understanding, modelling openness and curiosity about language and culture  **Music:** To understand other cultures and explore complex questions  **PE:** Understanding other cultures and treating others with respect, tolerance and dignity.  **Teaching and Learning Pathway:**   * Preparing for the role of subject leader | **Being a Teacher** - Contractual and Legal Responsibilities |

**Core Content Framework reference list**

|  |  |  |
| --- | --- | --- |
| **High Expectations (Standard 1 – ‘Set high expectations’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Aronson, J. (Ed.) (2002) Improving academic achievement: Impact of psychological factors on education. New York: Academic Press. |  |  |
| Bandura, A. (1986) Social foundations of thought and action: a social cognitive theory. Englewood Cliffs, NJ: Prentice-Hall. | Theories of Education |  |
| Campbell Collaboration (2018) School-based interventions for reducing disciplinary school exclusion: A Systematic Review. Accessible from: <https://campbellcollaboration.org/library/reducing-school-exclusion-school-based-interventions.html> | Behaviour |  |
| Chapman, R. L., Buckley, L., & Sheehan, M. (2013) School-Based Programs for Increasing Connectedness and Reducing Risk Behavior: A Systematic Review, Educational Psychology Review ,25(1), 95–114 | Behaviour |  |
| Chetty, R., Friedman, J. N., Rockoff, J. E. (2014) Measuring the Impacts of Teachers II: Teacher Value-Added and Student Outcomes in Adulthood. American Economic Review, 104(9), 2633–2679. <https://doi.org/10.1257/aer.104.9.2633> | Professionalism & Researchful Practice  Addressing Issues of Gender and Social Inequality |  |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit> | Behaviour | Curriculum Studies - general |
| Hanushek, E. (1992) The Trade-off between Child Quantity and Quality. Journal of Political Economy, 100(4), 84–117 | Addressing Issues of Gender and Social Inequality |  |
| Institute of Education Sciences (2008) Reducing Behavior Problems in the Elementary School Classroom. Accessible from <https://ies.ed.gov/ncee/wwc/PracticeGuide/4> | Behaviour |  |
| Johnson, S., Buckingham, M., Morris, S., Suzuki, S., Weiner, M., Hershberg, R., B. Weiner, Hershberg, R., Fremont, E., Batanova, M., Aymong, C., Hunter, C., Bowers, E., Lerner, J., & Lerner, R. (2016) Adolescents’ Character Role Models: Exploring Who Young People Look Up to as Examples of How to Be a Good Person. Research in Human Development, 13(2), 126–141. <https://doi.org/10.1080/15427609.2016.1164552> | Behaviour |  |
| Jussim, L. & Harber, K., (2005) Teacher Expectations and Self-Fulfilling Prophecies: Knowns and Unknowns, Resolved and Unresolved Controversies, Personality and Social Psychology Review 2005, Vol. 9, No. 2, 131–1557. | Professionalism & Researchful Practice |  |
| Lazowski, R. A., & Hulleman, C. S. (2016) Motivation Interventions in Education: A Meta-Analytic Review. Review of Educational Research, 86(2), 602–640. <https://doi.org/10.3102/0034654315617832> | Child Development |  |
| Murdock-Perriera, L. A., & Sedlacek, Q. C. (2018) Questioning Pygmalion in the twenty-first century: the formation, transmission, and attributional influence of teacher expectancies. Social Psychology of Education, 21(3), 691–707. <https://doi.org/10.1007/s11218-018-9439-9> | Professionalism & Researchful Practice |  |
| PISA (2015) PISA in Focus: Do teacher-student relations affect students’ well-being at school? Accessible from: <https://doi.org/10.1787/22260919> | Behaviour |  |
| Rathmann K., Herke M., Hurrelmann K., Richter M. (2018) Perceived class climate and school-aged children's life satisfaction: The role of the learning environment in classrooms. PLoS ONE 13(2). <https://doi.org/10.1371/journal.pone.0189335> | Addressing Issues of Gender and Social Inequality  Child Protection and Safeguarding |  |
| Rubie-Davies, C. M., Weinstein, R. S., Huang, F. L., Gregory, A., Cowan, P. A., & Cowan, C. P. (2014) Successive teacher expectation effects across the early school years. Journal of Applied Developmental Psychology, 35(3), 181–191. <https://doi.org/10.1016/j.appdev.2014.03.006> | Professionalism & Researchful Practice |  |
| Slater, H., Davies, N. M., & Burgess, S. (2011) Do Teachers Matter? Measuring the Variation in Teacher Effectiveness in England. Oxford Bulletin of Economics and Statistics, <https://doi.org/10.1111/j.1468-0084.2011.00666.x> | Being a Teacher  Professionalism & Researchful Practice |  |
| Tsiplakides, I. & Keramida, A. (2010) The relationship between teacher expectations and student achievement in the teaching of English as a foreign language. English Language Teaching, 3(2), P22. Retrieved from <http://files.eric.ed.gov/fulltext/EJ1081569.pdf> | Inclusion – seminar day 3 |  |
| Wubbels, T., Brekelmans, M., den Brok, P., Wijsman, L., Mainhard, T., & van Tartwijk, J. (2014) Teacher-student relationships and classroom management. In E. T. Emmer, E. Sabornie, C. Evertson, & C. Weinstein (Eds.). Handbook of classroom management: Research, practice, and contemporary issues (2nd ed., pp. 363–386). New York, NY: Routledge. | Behaviour |  |
| Zins, J. E., Bloodworth, M. R., Weissberg, R. P., & Walberg, H. J. (2007) The Scientific Base Linking Social and Emotional Learning to School Success. Journal of Educational and Psychological Consultation, 17(2–3), 191–210.  <https://doi.org/10.1080/10474410701413145> | Wellbeing |  |

|  |  |  |
| --- | --- | --- |
| **How Pupils Learn (Standard 2 – ‘Promote good progress’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Adesope, O. O., Trevisan, D. A., & Sundararajan, N. (2017) Rethinking the Use of Tests: A Meta-Analysis of Practice Testing. Review of Educational Research, 87(3), 659–701. <https://doi.org/10.3102/0034654316689306> | Child Development  Theories of Education |  |
| Agarwal, P. K., Finley, J. R., Rose, N. S., & Roediger, H. L. (2017) Benefits from retrieval practice are greater for students with lower working memory capacity. Memory, 25(6), 764–771. <https://doi.org/10.1080/09658211.2016.1220579> | Child Development  Theories of Education |  |
| Allen, B. and Sims, S. (2018) The Teacher Gap. Abingdon: Routledge | Child Development  Theories of Education |  |
| Baddeley, A. (2003) Working memory: looking back and looking forward. Nature reviews neuroscience, 4(10), 829-839. | Child Development  Theories of Education |  |
| Black, P., & Wiliam, D. (2009) Developing the theory of formative assessment. Educational Assessment, Evaluation and Accountability, 21(1), pp.5-31. | Child Development  Theories of Education |  |
| Chi, M. T. (2009) Three types of conceptual change: Belief revision, mental model transformation, and categorical shift. In International handbook of research on conceptual change (pp. 89-110). Routledge. | Child Development  Theories of Education |  |
| Clark, R., Nguyen, F. & Sweller, J. (2006) Efficiency in Learning: Evidence-Based Guidelines to Manage Cognitive Load. John Wiley & Sons. | Child Development  Theories of Education |  |
| Cowan, N. (2008) What are the differences between long-term, short-term, and working memory? Progress in brain research, 169, 323-338. | Child Development  Theories of Education |  |
| Deans for Impact (2015) The Science of Learning [Online] Accessible from: <https://deansforimpact.org/resources/the-science-oflearning/> | Child Development  Theories of Education |  |
| Dunlosky, J., Rawson, K. A., Marsh, E. J., Nathan, M. J., & Willingham, D. T. (2013) Improving students’ learning with effective learning techniques: Promising directions from cognitive and educational psychology. Psychological Science in the Public Interest, Supplement, 14(1), 4–58. <https://doi.org/10.1177/1529100612453266> | Child Development  Theories of Education |  |
| Education Endowment Foundation (2018) Improving Secondary Science Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> | Child Development  Theories of Education |  |
| Gathercole, S., Lamont, E., & Alloway, T. (2006) Working memory in the classroom. Working memory and education, 219-240. | Child Development  Theories of Education |  |
| Hattie, J. (2012) Visible Learning for Teachers. Oxford: Routledge. | Child Development  Theories of Education |  |
| Kirschner, P., Sweller, J., Kirschner, F. & Zambrano, J. (2018) From cognitive load theory to collaborative cognitive load theory. In International Journal of Computer-Supported Collaborative Learning, 13(2), 213-233. | Child Development  Theories of Education |  |
| Pachler, H., Bain, P. M., Bottge, B. A., Graesser, A., Koedinger, K., McDaniel, M., & Metcalfe, J. (2007) Organizing Instruction and Study to Improve Student Learning. US Department of Education. | Child Development  Theories of Education | Curriculum Studies – general  Planning & Sequencing in maths  **Pathways** |
| Pan, S. C., & Rickard, T. C. (2018) Transfer of test-enhanced learning: Meta-analytic review and synthesis. Psychological Bulletin, 144(7), 710–756. <https://doi.org/10.1037/bul0000151> | Child Development  Theories of Education |  |
| Roediger, H. L., & Butler, A. C. (2011) The critical role of retrieval practice in long-term retention. Trends in Cognitive Sciences, 15(1), 20–27. <https://doi.org/10.1016/j.tics.2010.09.003> | Child Development  Theories of Education | Curriculum Studies – general  **Pathways** |
| Rosenshine, B. (2012) Principles of Instruction: Research-based strategies that all teachers should know. American Educator, 12–20. <https://doi.org/10.1111/j.1467-8535.2005.00507.x> | Child Development  Theories of Education | Curriculum Studies – general  Planning & Sequencing in maths  **Pathways** |
| Simonsmeier, B. A., Flaig, M., Deiglmayr, A., Schalk, L., & Well-being, S. (2018) Domain-Specific Prior Knowledge and Learning:  A Meta-Analysis Prior Knowledge and Learning. Accessible from: <https://www.psycharchives.org/handle/20.500.12034/642> | Child Development  Theories of Education |  |
| Sweller, J. (2016). Working Memory, Long-term Memory, and Instructional Design. Journal of Applied Research in Memory and Cognition, 5(4), 360–367. <http://doi.org/10.1016/j.jarmac.2015.12.002> | Child Development  Theories of Education | Curriculum Studies – general  **Pathways**  Planning & Sequencing maths |
| Willingham, D. T. (2009) Why don’t students like school? San Francisco, CA: JosseyBass. | Child Development  Theories of Education |  |
| Wittwer, J., & Renkl, A. (2010) How Effective are Instructional Explanations in Example-Based Learning? A Meta-Analytic Review. Educational Psychology Review, 22(4), 393–409. <https://doi.org/10.1007/s10648-010-9136-5> | Child Development  Theories of Education |  |

|  |  |  |
| --- | --- | --- |
| **Subject and Curriculum (Standard 3 – ‘Demonstrate good subject and curriculum knowledge’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Bailin, S., Case, R., Coombs, J. R., & Daniels, L. B. (1999) Common misconceptions of critical thinking. Journal of Curriculum Studies, 31(3), 269-283. | Child Development  Theories of Education  Masters Level writing |  |
| Ball, D. L., Thames, M. H., & Phelps, G. (2008) Content knowledge for teachers: What makes it special? Journal of Teacher Education, 2008 59: 389 DOI: 10.1177/0022487108324554 [Online] Accessible from: <https://www.math.ksu.edu/~bennett/onlinehw/qcenter/ballmkt.pdf> |  | Curriculum Studies – general  CS- Humanities nature of knowledge  **Pathways** |
| Biesta, G. (2009) Good education in an age of measurement: on the need to reconnect with the question of purpose in education. Educational Assessment, Evaluation and Accountability, 21(1). | Purpose of Education |  |
| Coe, R., Aloisi, C., Higgins, S., & Major, L. E. (2014) What makes great teaching. Review of the underpinning research. Durham University: UK. Available at: <http://bit.ly/2OvmvKO> | Addressing Issues of Gender and Social Inequality |  |
| Cowan, N. (2008) What are the differences between long-term, short-term, and working memory? Progress in brain research, 169, 323-338. | Child Development  Theories of Education |  |
| Deans for Impact (2015) The Science of Learning [Online] Accessible from: <https://deansforimpact.org/resources/the-science-oflearning/> | Child Development  Theories of Education |  |
| Education Endowment Foundation (2018) Improving Secondary Science Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – science  SCIENCE pathway |
| Education Endowment Foundation (2018) Preparing for Literacy Guidance Report. [Online] Accessible from: [Preparing\_Literacy\_Guidance\_2018.pdf](https://educationendowmentfoundation.org.uk/public/files/Preparing_Literacy_Guidance_2018.pdf) |  | Curriculum Studies – English  English pathway |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit/> | Addressing Issues of Gender and Social Inequality | Curriculum Studies – general |
| Guzzetti, B. J. (2000) Learning counter-intuitive science concepts: What have we learned from over a decade of research? Reading & Writing Quarterly: Overcoming Learning Difficulties, 16, 89 –98. http://dx.doi.org/10.1080/105735600277971 |  | Curriculum Studies – science |
| Jerrim, J., & Vignoles, A. (2016) The link between East Asian "mastery" teaching methods and English children's mathematics skills. Economics of Education Review, 50, 29-44. <https://doi.org/10.1016/j.econedurev.2015.11.003> |  | Curriculum Studies – mathematics |
| Machin, S., McNally, S., & Viarengo, M. (2018) Changing how literacy is taught: Evidence on synthetic phonics. American Economic Journal: Economic Policy, 10(2), 217–241. <https://doi.org/10.1257/pol.20160514> | Early Literacy | Curriculum Studies – English  English Pathway |
| Rich, P. R., Van Loon, M. H., Dunlosky, J., & Zaragoza, M. S. (2017) Belief in corrective feedback for common misconceptions: Implications for knowledge revision. Journal of Experimental Psychology: Learning, Memory, and Cognition, 43(3), 492-501. <http://dx.doi.org/10.1037/xlm0000322> |  | Curriculum Studies – general  Pathway |
| Rosenshine, B. (2012) Principles of Instruction: Research-based strategies that all teachers should know. American Educator, 12–20. <https://www.aft.org//sites/default/files/periodicals/Rosenshine.pdf> | Child Development  Theories of Education  Planning & Sequencing | Curriculum Studies – general  **Pathways** |
| Scott, C. E., McTigue, E. M., Miller, D. M., & Washburn, E. K. (2018) The what, when, and how of preservice teachers and literacy across the disciplines : A systematic literature review of nearly 50 years of research. Teaching and Teacher Education, 73, 1–13. <https://doi.org/10.1016/j.tate.2018.03.010> |  | Curriculum Studies – English  English Pathway |
| Shanahan, T. (2005) The National Reading Panel Report: Practical Advice for Teachers. Accessible from: <https://files.eric.ed.gov/fulltext/ED489535.pdf> |  | Curriculum Studies – English  English Pathway |
| Sweller, J., van Merrienboer, J. J. G., & Paas, F. G. W. C. (1998) Cognitive Architecture and Instructional Design. Educational Psychology Review, 10(3), 251–296. <https://doi.org/10.1023/A:1022193728205> | Child Development  Theories of Education |  |
| Willingham, D. T. (2002) Ask the Cognitive Scientist. Inflexible Knowledge: The First Step to Expertise. American Educator, 26(4), 31-33. Accessible from: <https://www.aft.org/periodical/american-educator/winter-2002/ask-cognitive-scientist> | Child Development  Theories of Education |  |

|  |  |  |
| --- | --- | --- |
| **Classroom Practice (Standard 4 – ‘Plan and teach well structured lessons’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Alexander R.J. (2020) A Dialogic Teaching Companion, London: Routledge. |  | Hums CS? |
| Coe, R., Aloisi, C., Higgins, S., & Major, L. E. (2014) What makes great teaching. Review of the underpinning research. Durham University: UK. Available at: <http://bit.ly/2OvmvKO> | Addressing Issues of Gender and Social Inequality | Curriculum Studies – general  Pathways? |
| Donker, A. S., de Boer, H., Kostons, D., Dignath van Ewijk, C. C., & van der Werf, M. P. C. (2014) Effectiveness of learning strategy instruction on academic performance: A meta-analysis. Educational Research Review, 11, 1–26. <https://doi.org/10.1016/j.edurev.2013.11.002> |  | Curriculum Studies – general  ALL SUBJECTS pathway |
| Donovan, M. S., & Bransford, J. D. (2005) How students learn: Mathematics in the classroom. Washington, DC: The National Academies Press. |  | Curriculum Studies – mathematics |
| Dunlosky, J., Rawson, K. A., Marsh, E. J., Nathan, M. J., & Willingham, D. T. (2013) Improving students’ learning with effective learning techniques: Promising directions from cognitive and educational psychology. Psychological Science in the Public Interest, Supplement, 14(1), 4–58. <https://doi.org/10.1177/1529100612453266> | Child Development  Theories of Education |  |
| Education Endowment Foundation (2016) Improving Literacy in Key Stage One Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – English  English pathway |
| Education Endowment Foundation (2017) Improving Mathematics in Key Stages Two and Three Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – mathematics  Maths pathway |
| Education Endowment Foundation (2017) Metacognition and Self-regulated learning Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – general |
| Education Endowment Foundation (2018) Improving Secondary Science Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – science  SCIENCE pathway |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit/> | Addressing Issues of Gender and Social Inequality | Curriculum Studies – general |
| Elleman, A. M., Lindo, E. J., Morphy, P., & Compton, D. L. (2009) The Impact of Vocabulary Instruction on Passage-Level Comprehension of School-Age Children: A Meta-Analysis. Journal of Research on Educational Effectiveness, 2(1), 1–44. <https://doi.org/10.1080/19345740802539200> |  | Curriculum Studies – general |
| Hodgen, J., Foster, C., Marks, R. & Brown, M. (2018) Improving Mathematics in Key Stages Two and Three: Evidence Review. [Online] Accessible from <https://educationendowmentfoundation.org.uk/evidence-summaries/evidence-reviews/improvingmathematics-in-key-stages-two-and-three/> |  | Curriculum Studies – mathematics  Maths pathway |
| Institute of Education Sciences. (2009) Assisting Students Struggling with Mathematics: Response to Intervention for Elementary and Middle Schools. Accessible from: <https://ies.ed.gov/ncee/wwc/Docs/PracticeGuide/rti_math_pg_042109.pdf> |  | Curriculum Studies – mathematics  Maths pathway |
| Jay, T., Willis, B., Thomas, P., Taylor, R., Moore, N., Burnett, C., Merchant, G., Stevens, A. (2017) Dialogic Teaching: Evaluation Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/projects-and-evaluation/projects/dialogicteaching> |  |  |
| Kalyuga, S. (2007) Expertise reversal effect and its implications for learner-tailored instruction. Educational Psychology Review, 19(4), 509-539. | Child Development  Theories of Education |  |
| Kirschner, P., Sweller, J., Kirschner, F. & Zambrano, J. (2018) From cognitive load theory to collaborative cognitive load theory. In International Journal of Computer-Supported Collaborative Learning, 13(2), 213-233. | Child Development  Theories of Education |  |
| Leung, K. C. (2015) Preliminary Empirical Model of Crucial Determinants of Best Practice for Peer Tutoring on Academic Achievement. Journal of Educational Psychology, 107(2), 558–579. <https://doi.org/10.1037/a0037698> |  | Curriculum Studies – general |
| Muijs, D., & Reynolds, D. (2017) Effective teaching: Evidence and practice. Thousand Oaks, CA: Sage. |  | Curriculum Studies – general  pathway |
| Pan, S. C., & Rickard, T. C. (2018) Transfer of test-enhanced learning: Meta-analytic review and synthesis. Psychological Bulletin, 144(7), 710–756. <http://psycnet.apa.org/doiLanding?doi=10.1037%2Fbul0000151> | Child Development  Theories of Education |  |
| Rosenshine, B. (2012) Principles of Instruction: Research-based strategies that all teachers should know. American Educator, 12–20. <https://doi.org/10.1111/j.1467-8535.2005.00507.x> | Child Development  Theories of Education |  |
| Sweller, J. (2016). Working Memory, Long-term Memory, and Instructional Design. Journal of Applied Research in Memory and Cognition, 5(4), 360–367. <http://doi.org/10.1016/j.jarmac.2015.12.002> | Child Development  Theories of Education |  |
| Tereshchenko, A., Francis, B., Archer, L., Hodgen, J., Mazenod, A., Taylor, B., Travers, M. C. (2018) Learners’ attitudes to mixed-attainment grouping: examining the views of students of high, middle and low attainment. Research Papers in Education, 1522, 1–20. <https://doi.org/10.1080/02671522.2018.1452962> | Addressing Issues of Gender and Social Inequality  SEND | Curriculum Studies – general  Pathways? |
| Van de Pol, J., Volman, M., Oort, F., & Beishuizen, J. (2015) The effects of scaffolding in the classroom: support contingency and student independent working time in relation to student achievement, task effort and appreciation of support. Instructional Science, 43(5), 615-641. | Theories of Education | Curriculum Studies – general  pathway |
| Wittwer, J., & Renkl, A. (2010) How Effective are Instructional Explanations in Example-Based Learning? A Meta-Analytic Review. Educational Psychology Review, 22(4), 393–409. <https://doi.org/10.1007/s10648-010-9136-5> | Child Development  Theories of Education |  |
| Zimmerman, B. J. (2002) Becoming a Self-Regulated Learner: An Overview, Theory Into Practice. Theory Into Practice, 41(2), 64–70. <https://www.jstor.org/stable/1477457?seq=1#page_scan_tab_contents> |  | Curriculum Studies – general  pathway |

|  |  |  |
| --- | --- | --- |
| **Adaptive Teaching (Standard 5 – ‘Adapt teaching’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Davis, P., Florian, L., Ainscow, M., Dyson, A., Farrell, P., Hick, P., Rouse, M. (2004) Teaching Strategies and Approaches for Pupils with Special Educational Needs: A Scoping Study. Accessible from: <http://dera.ioe.ac.uk/6059/1/RR516.pdf> | SEND |  |
| Deunk, M. I., Smale-Jacobse, A. E., de Boer, H., Doolaard, S., & Bosker, R. J. (2018) Effective differentiation Practices: A systematic review and meta-analysis of studies on the cognitive effects of differentiation practices in primary education. Educational Research Review, 24(February), 31–54. <https://doi.org/10.1016/j.edurev.2018.02.002> | Inclusion - Seminar Day 3 |  |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit> |  | Curriculum Studies – general  and pathway |
| Hattie, J. (2009) Visible learning: a synthesis of over 800 meta-analyses relating to achievement. London: Routledge | Inclusion – Seminar Day 3 |  |
| Kriegbaum, K., Becker, N., & Spinath, B. (2018) The Relative Importance of Intelligence and Motivation as Predictors of School Achievement: A meta-analysis. Educational Research Review. <https://doi.org/10.1016/j.edurev.2018.10.001> | Child Development  Theories of Education |  |
| OECD (2015) Pisa 2015 Result: Policies and Practices for Successful Schools. Accessible from: <https://doi.org/10.1787/9789264267510-en> |  | Curriculum Studies – science |
| Pashler, H., McDaniel, M., Rohrer, D., & Bjork, R. (2008) Learning Styles: Concepts and Evidence. Psychological Science in the Public Interest, 9 (3). | Child Development  Theories of Education |  |
| Sisk, V. F., Burgoyne, A. P., Sun, J., Butler, J. L., & Macnamara, B. N. (2018) To What Extent and Under Which Circumstances Are Growth Mind-Sets Important to Academic Achievement? Two Meta-Analyses. Psychological Science, 29(4), 549–571. <https://doi.org/10.1177/0956797617739704> |  | Curriculum Studies – general  Pathway |
| Speckesser, S., Runge, J., Foliano, F., Bursnall, M., Hudson-Sharp, N., Rolfe, H. & Anders, J. (2018) Embedding Formative Assessment: Evaluation Report. [Online] Accessible from: [EFA\_evaluation\_report.pdf](https://educationendowmentfoundation.org.uk/public/files/EFA_evaluation_report.pdf) |  | Curriculum Studies – general  Pathway |
| Steenbergen-Hu, S., Makel, M. C., & Olszewski-Kubilius, P. (2016) What One Hundred Years of Research Says About the Effects of Ability Grouping and Acceleration on K-12 Students Academic Achievement: Findings of Two Second-Order MetaAnalyses. Review of Educational Research (Vol. 86). <https://doi.org/10.3102/0034654316675417> |  | Curriculum Studies – mathematics |
| Tereshchenko, A., Francis, B., Archer, L., Hodgen, J., Mazenod, A., Taylor, B., Travers, M. C. (2018) Learners’ attitudes to mixed-attainment grouping: examining the views of students of high, middle and low attainment. Research Papers in Education, 1522, 1–20. <https://doi.org/10.1080/02671522.2018.1452962> | Addressing Issues of Gender and Social Inequality | Curriculum Studies – general |
| Willingham, D. T. (2010) The Myth of Learning Styles, Change, 42(5), 32–35. | Child Development  Theories of Education |  |

|  |  |  |
| --- | --- | --- |
| **Assessment (Standard 6 – ‘Make accurate and productive use of assessment’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Black, P., & Wiliam, D. (2009) Developing the theory of formative assessment. Educational Assessment, Evaluation and Accountability, 21(1), pp.5-31. |  | Curriculum Studies – general  and pathways |
| Black, P., Harrison, C., Lee, C., Marshall, B., & Wiliam, D. (2004). Working inside the Black Box: Assessment for Learning in the Classroom. Phi Delta Kappan, 86(1), 8–21. Accessible from: <https://eric.ed.gov/?id=EJ705962> |  | Curriculum Studies – general  and pathways |
| Christodoulou, D. (2017) Making Good Progress: The Future of Assessment for Learning. Oxford: OUP. |  | Curriculum Studies – general  and pathways |
| Coe, R. (2013) Improving Education: A triumph of hope over experience. Centre for Evaluation and Monitoring. Accessible from: <http://www.cem.org/attachments/publications/ImprovingEducation2013.pdf> |  | Curriculum Studies – general  and pathways |
| Education Endowment Foundation (2016) A marked improvement? A review of the evidence on written marking. Accessible from: [EEF\_Marking\_Review\_April\_2016.pdf](https://educationendowmentfoundation.org.uk/public/files/Publications/EEF_Marking_Review_April_2016.pdf) |  | Curriculum Studies – general  and pathways |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit/> |  | Curriculum Studies – general  and pathways |
| Gibson, S., Oliver, L. and Dennison, M. (2015) Workload Challenge: Analysis of teacher consultation responses. Department for Education. Accessible from: [Workload Challenge](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/485075/DFE-RR456A__Workload_Challenge_Analysis_of_teacher_consultation_responses_sixth_form_colleges.pdf) |  | Curriculum Studies – general  and pathways |
| Hattie, J., & Timperley, H. (2007) The Power of Feedback. Review of Educational Research, 77(1), 81–112. <https://doi.org/10.3102/003465430298487> |  | Curriculum Studies – general  and pathways |
| Harlen, W. & James, M. (1997) Assessment and Learning: differences and relationships between formative and summative assessment, Assessment in Education: Principles, Policy & Practice 4:3, 365-379.Kluger, A. N., & DeNisi, A. (1996) The effects of feedback interventions on performance: A historical review, a meta-analysis, and a preliminary feedback intervention theory.  Psychological Bulletin, 119(2), 254–284. <https://doi.org/10.1037/0033-2909.119.2.254> |  | Curriculum Studies – general  and pathways |
| Sadler, D. (1989) Formative assessment and the design of instructional systems. Instructional Science, 18(2), pp.119-144. |  | Curriculum Studies – general  and pathways |
| Speckesser, S., Runge, J., Foliano, F., Bursnall, M., Hudson-Sharp, N., Rolfe, H. & Anders, J. (2018) Embedding Formative Assessment: Evaluation Report. [Online] Accessible from: [EFA\_evaluation\_report.pdf](https://educationendowmentfoundation.org.uk/public/files/EFA_evaluation_report.pdf) |  | Curriculum Studies – general  and pathways |
| Wiliam, D. (2010) What Counts as Evidence of Educational Achievement? The Role of Constructs in the Pursuit of Equity in Assessment. Review of Research in Education, 34, pp. 254-284. |  | Curriculum Studies – general  and pathways |
| Wiliam, D. (2017) Assessment, marking and feedback. In Hendrick, C. and McPherson, R. (Eds.) What Does This Look Like in the Classroom? Bridging the gap between research and practice. Woodbridge: John Catt. |  | Curriculum Studies – general  and pathways |

|  |  |  |
| --- | --- | --- |
| **Managing Behaviour (Standard 7 – ‘Manage behaviour effectively’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Bennett, J., Lubben, F., & Hogarth, S. (2006) Bringing Science to Life: A Synthesis of the Research Evidence on the Effects of Context-Based and STS Approaches to Science Teaching. Science Education, 91(1), 36–74. <https://www.york.ac.uk/media/educationalstudies/documents/staff-docs/Bennett%20Lubben%20Hogarth%202007.pdf> |  | Curriculum Studies – science |
| Carroll, J., Bradley, L., Crawford, H., Hannant, P., Johnson, H., & Thompson, A. (2017). SEN support: A rapid evidence assessment. Accessible from: [SEN\_Support](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/628630/DfE_SEN_Support_R) | SEND |  |
| Chapman, R. L., Buckley, L., & Sheehan, M. (2013) School-Based Programs for Increasing Connectedness and Reducing Risk Behavior: A Systematic Review, 25(1), 95–114. | Behaviour Management |  |
| Coe, R., Aloisi, C., Higgins, S., & Major, L. E. (2014) What makes great teaching. Review of the underpinning research. Durham University: UK. Available at: <http://bit.ly/2OvmvKO>. | Being a Teacher |  |
| DuPaul, G. J., Belk, G. D., & Puzino, K. (2016) Evidence-Based Interventions for Attention Deficit Hyperactivity Disorder in Children and Adolescents. Handbook of Evidence-Based Interventions for Children and Adolescents, 167. | SEND |  |
| Education Endowment Foundation (2018) Improving Secondary Science Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> |  | Curriculum Studies – science |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit/> |  | Curriculum Studies – general  and pathways |
| Gutman, L. & Schoon, L. (2013) The impact of non-cognitive skills on the outcomes of young people. [Online] Accessible from: [EEF\_Lit\_Review\_Non-CognitiveSkills.pdf](https://educationendowmentfoundation.org.uk/public/files/Publications/EEF_Lit_Review_Non-CognitiveSkills.pdf) | Child Development  Theories of Education |  |
| Institute of Education Sciences (2008) Reducing Behavior Problems in the Elementary School Classroom. Accessible from <https://ies.ed.gov/ncee/wwc/PracticeGuide/4> | Behaviour |  |
| Kern, L., & Clemens, N. H. (2007) Antecedent strategies to promote appropriate classroom behavior. Psychology in the Schools, 44(1), 65–75. <https://doi.org/10.1002/pits.20206> | Behaviour |  |
| Lazowski, R. A., & Hulleman, C. S. (2016) Motivation Interventions in Education: A Meta-Analytic Review. Review of Educational Research, 86(2), 602–640. <https://doi.org/10.3102/0034654315617832> | Child Development |  |
| Mitchell, D. (2014). What really works in special and inclusive education. Oxford: Routledge. | SEND |  |
| Sibieta, L., Greaves, E. & Sianesi, B. (2014) Increasing Pupil Motivation: Evaluation Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/projects-and-evaluation/projects/increasing-pupil-motivation/> | Child Development |  |
| Ursache, A., Blair, C., & Raver, C. C. (2012) The promotion of self‐regulation as a means of enhancing school readiness and early achievement in children at risk for school failure. Child Development Perspectives, 6(2), 122-128. | Behaviour |  |
| Willingham, D. T. (2009) Why don’t students like school? San Francisco, CA: JosseyBass. | Theories of Education |  |
| Wubbels, T., Brekelmans, M., den Brok, P., Wijsman, L., Mainhard, T., & van Tartwijk, J. (2014) Teacher-student relationships and classroom management. In E. T. Emmer, E. Sabornie, C. Evertson, & C. Weinstein (Eds.). Handbook of classroom management: Research, practice, and contemporary issues (2nd ed., pp. 363–386). New York, NY: Routledge. | Behaviour |  |
| Yeager, D. S., & Walton, G. M. (2011) Social-Psychological Interventions in Education: They’re Not Magic. Review of Educational Research, 81(2), 267–301. <https://doi.org/10.3102/0034654311405999> | Behaviour  Child Development |  |

|  |  |  |
| --- | --- | --- |
| **Professional Behaviours (Standard 8 – ‘Fulfil wider professional responsibilities’)** | | |
| **Reference** | **Education and Professional Studies** | **Subject Knowledge and Pedagogy** |
| Allen JP, Pianta RC, Gregory A, Mikami AY, Lun J (2011) An interaction-based approach to enhancing secondary school instruction and student achievement. Science 333(6045):1034-1037 <https://doi.org/10.1126/science.1207998> | The Exeter Model |  |
| Basma, B. & Savage, R. (2018) Teacher Professional Development and Student Literacy Growth: a Systematic Review and Metaanalysis. Education Psychology Review. 30: 457 <https://doi.org/10.1007/s10648-017-9416-4> | The Exeter Model |  |
| Blatchford, P., Bassett, P., Brown, P., Martin, C., Russell, A., & Webster, R. (2009) Deployment and impact of support staff in schools: Characteristics, Working Conditions and Job Satisfaction of Support Staff in Schools. Retrieved from <http://eprints.uwe.ac.uk/12342/> | Seminar Day 3: Reflecting on classroom practice: Adaptive teaching and working with support staff |  |
| Carroll, J., Bradley, L., Crawford, H., Hannant, P., Johnson, H., & Thompson, A. (2017) SEN support: A rapid evidence assessment. Accessible from: [SEN\_Support](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/628630/DfE_SEN_Support_RE_Report.pdf) | SEND |  |
| Cordingley, P., Higgins, S., Greany, T., Buckler, N., Coles-Jordan, D., Crisp, B., Saunders, L. & Coe, R. (2015) Developing Great Teaching. Accessible from: <https://tdtrust.org/about/dgt> | The Exeter Model |  |
| Darling-Hammond, L. (2009) Professional Learning in the Learning Profession. | The Exeter Model |  |
| Department for Education (2018) [Schools: guide to the 0 to 25 SEND code of practice](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/349053/Schools_Guide_to_the_0_to_25_SEND_Code_of_Practice.pdf.) | SEND |  |
| Education Endowment Foundation (2015) Making Best Use of Teaching Assistants Guidance Report. [Online] Accessible from: <https://educationendowmentfoundation.org.uk/tools/guidance-reports/> | Seminar Day 3: Reflecting on classroom practice: Adaptive teaching and working with support staff |  |
| Education Endowment Foundation (2018) Sutton Trust-Education Endowment Foundation Teaching and Learning Toolkit: Accessible from: <https://educationendowmentfoundation.org.uk/evidence-summaries/teaching-learning-toolkit/> |  | Curriculum Studies – general  and pathways |
| A Hughes, D., Mann, A., Barnes, S., Baladuf, B. and McKeown, R. (2016). Careers education: International literature review <https://educationendowmentfoundation.org.uk/evidence-summaries/evidence-reviews/careers-education/> |  |  |
| Kraft, M., Blazar, D., & Hogan, D. (2018) The Effect of Teacher Coaching on Instruction and Achievement: A Meta-Analysis of the Causal Evidence. Review of Educational Research, 003465431875926. <https://doi.org/10.3102/0034654318759268> | The Exeter Model |  |
| Skaalvik, E. M., & Skaalvik, S. (2017) Still motivated to teach? A study of school context variables, stress and job satisfaction among teachers in senior high school. Social Psychology of Education, 20(1), 15–37. <https://doi.org/10.1007/s11218-016-9363-9> | Being a Teacher |  |