

Perryfields Infant School

**Mastery
across the curriculum**

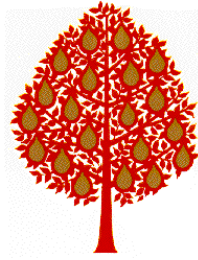
Perryfields Infant School

Mastery across the Curriculum

Rationale

To show our whole school commitment to the development of a mastery curriculum, each Subject Leader has produced a mastery statement, which details how a mastery approach is promoted through that curriculum area. By having high expectations, our whole school aim is to develop children that have both the skills and opportunities to master a range of subjects across the curriculum.

- 1. Literacy**
- 2. Maths**
- 3. Science**
- 4. Computing**
- 5. Religious Education**
- 6. History**
- 7. Geography**
- 8. Art**
- 9. Design and Technology**
- 10. Personal Social Health Education**
- 11. Music**
- 12. Physical Education**



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Mastery in Literacy at Perryfields Infant School

Effective mastery in literacy focuses on the development of the ability to demonstrate creativity, imagination and innovation across a range of genres. It is achieved through teaching in longer sequences, looking in detail at language and words used, and using them as models in their own writing.

Teaching methods

Precise questioning during lessons ensures that pupils develop can think deeply about a text or an area of focus.

Time is given to explore words and phrases, and play with sentences, meaning that children always consider the impact on the reader when they write and can justify choices they make.

Less emphasis is made on covering the full range of text types in each year group, ensuring children develop greater depth and are secure in those genres covered.

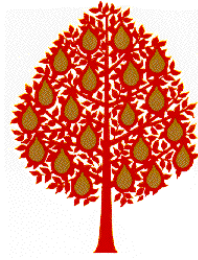
Differentiation and scaffolded thinking support all children to work with the same objective. Wherever possible, teaching sequences will involve a range of visual, auditory and oral and kinaesthetic approaches to immerse children in texts.

Challenges are always provided to enable to provide pupils to apply skills in different contexts when they are ready to do so.

Explicit learning of spelling, handwriting and grammar are important in the journey towards effective writing.

Teaching resources

High quality texts in all forms – including books, film, drama, pictures, audio, computer-based - are used to support classroom teaching to help build a love of literacy.



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Mastery in Maths at Perryfields Infant School

Effective mastery in mathematics focuses on the development of deep understanding and knowledge of concepts and the ability to see patterns and make connections independently. It is achieved through teaching in small and carefully sequenced steps.

Teaching methods

Precise questioning during lessons ensures that pupils develop fluent technical proficiency and think deeply about the underpinning mathematical concepts. They are able to justify answers through reasoning.

Pupils are taught to identify which of four main strategies will support them with calculation – use of number lines, use of base 10 apparatus, use of bar models and use of arrays.

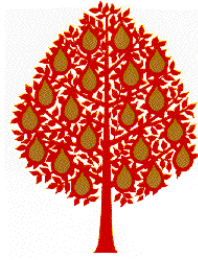
Differentiation occurs in the *support and intervention* provided to different pupils, *not in the topics* taught. Challenges are always provided to enable to provide pupils to apply a skill in a different context when they are ready to do so.

Explicit learning of number facts is important in to journey towards fluency and contributes to quick and efficient mental calculation.

Teaching resources

High quality materials, including concrete and pictorial representations, are used to support classroom teaching to help build procedural and conceptual knowledge together.

Lessons may include a variety of representations needed to introduce and explore a concept effectively.



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Mastery in Science at Perryfields Infant School

Effective mastery in science focuses on the ability to explain how and why things work in the world around us, applying learning in different fields. It is achieved through teaching in longer sequences, thoroughly investigating phenomena and making careful observations of similarities and differences occurring. Mastery in science is enriched with opportunities for practical lessons where children are exposed to a wide variety of topics that support their curiosity for learning. Mastery in science promotes a love for enquiry and wanting to explore new things.

Teaching methods

Precise and higher-order questioning during lessons encourages pupils to think deeply and apply their understanding.

Most of the learning about science will be done through the use of first-hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos.

Accurate scientific language will be used and children will be encouraged to use it in their explanations of what they observe.

The use of mathematics is used to compare and present data where appropriate.

Differentiation and scaffolded thinking support all children to work with the same objective.

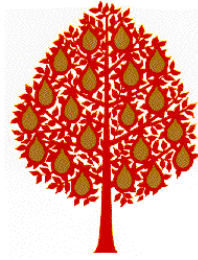
Challenges are always provided to enable to provide pupils to apply skills in different contexts when they are ready to do so, investigating what happens when different variables are changed.

Teaching resources

Pupils are given opportunities to apply understanding in practical activities, in which they investigate questions, generate data and try to explain what it means.

Wherever possible, children will be encouraged to self-select equipment that they feel is the most appropriate for an investigation.

Pupils will sometimes be given opportunities to research areas and ideas using computing skills and summarise research in their own words. New technologies will also be made available to assist accurate measurement and observations where appropriate.



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Mastery in Computing at Perryfields Infant School

Effective mastery in computing focuses on acquiring a resilient attitude towards computing and its applications across the curriculum. It is achieved through teaching in longer sequences, using a range of IT resources and developing skills through investigations and collaborative learning. .

Teaching methods

Open-ended questioning and investigations during lessons ensure that children can develop problem-solving skills and logical thinking.

Children are encouraged to apply skills they have learned in other subjects to their computing work, such as the ability to read and interpret data from a range of sources, as explored in maths and science lessons.

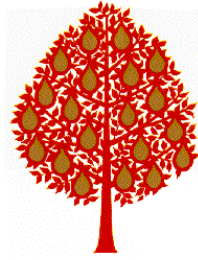
Differentiation, visual supports and scaffolded-thinking support all children to work with the same objective.

Challenges are always provided to enable pupils to apply and extend skills learned in different contexts when they are ready to do so.

Teaching resources

Pupils are given opportunities to use high-quality IT resources, such as desktop computers with a range of suitable applications installed, iPads, cameras and other recording equipment and floor turtles.

Wherever possible, children will be encouraged to self-select media or applications that they feel is the most appropriate to complete a task.



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Mastery in Religious Education at Perryfields Infant School

Effective mastery in RE encourages all pupils to think deeply about their own personal values and beliefs, as well as those of others.

Higher order questioning during lessons ensures that pupils can reflect on spiritual and ethical issues.

Greater time is spent exploring key ideas, themes and beliefs.

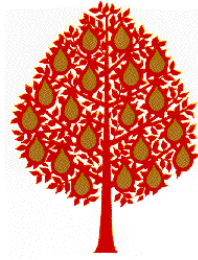
Children are encouraged to ask their own deep thinking questions and are given time to contribute to peer discussions and debates.

Pupils are encouraged to compare and contrast customs and beliefs from one religion to another.

The use of high quality resources such as artefacts, texts and pictures are used to stimulate curiosity and deep thinking ideas.

The children are taught systematically about all major world faiths and have opportunities to explore areas such as key beliefs, places of worship, symbols and customs.

As a result of this, pupils have a deep understanding of the actions, views and beliefs of others from a range of cultures who may have different viewpoints and beliefs to their own.



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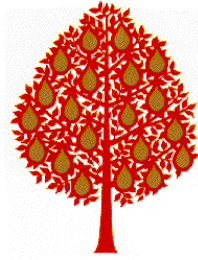
Mastery in History at Perryfields Infant School

Effective mastery in history encourages all children to think critically about the past and evaluate the impact of historical events on the world today.

Pupils are encouraged to compare and contrast different ways in which people lived in the past.

Higher order questioning during lessons ensures that pupils can deepen their understanding by empathising with people of the past and think carefully about their motivation and decisions. In addition, children are encouraged to ask their own deep thinking questions and are given time to reflect and discuss with their peers.

As a result of this, pupils will have a deeper understanding of the past and develop critical thinking skills.



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Mastery in Geography at Perryfields Infant School

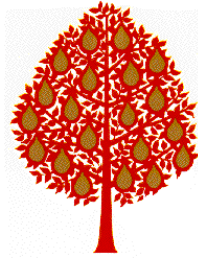
Effective mastery in geography enables children to be able to make comparisons, showing their understanding of geographical similarities and differences through the study of human and physical geography.

Higher order questioning during lessons ensures that pupils can reflect on prior knowledge, so they have the opportunity to apply their understanding between the themes they have studied.

The use of high quality resources such as aerial maps, atlases and photos are used to stimulate curiosity and deep thinking ideas.

Children are encouraged to ask their own deep thinking questions through class discussions and group work.

As a result of this, children will have a deep understanding of the world around them.



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Mastery in Art at Perryfields Infant School

Effective mastery in art focuses on the process of creating, exploring, discovering and experimenting; that allows pupils to express themselves in innovative and different ways. Effective mastery in art encourages all pupils to think deeply about both their own and others artwork. Children learn to develop their visual vocabulary.

Teaching methods

Higher order questioning during lessons ensures that pupils develop a deep understanding about a piece of artwork or a particular style of art or artist.

Pupils are encouraged to ask their own deep thinking questions. Pupils are encouraged to compare and contrast different styles, for example, from one artist/artwork to another. As a result of this, pupils have a deeper understanding of the influences, style and inspiration of artists, designers and craftsmen from a range of times and cultures.

Pupils are encouraged to explore new techniques and develop precision when using a range of tools and techniques.

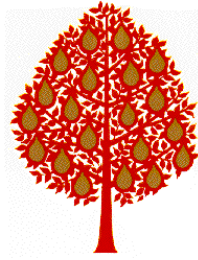
Differentiation through outcome and scaffolded thinking support all children to work with the same objective. Wherever possible, teaching sequences will involve a range of visual, auditory and oral and kinaesthetic approaches to immerse children in art.

Challenges are always provided to enable pupils to apply skills in different contexts when they are ready to do so.

Teaching resources

High quality materials, such as artefacts and pictures, computer-based, are used to support classroom teaching to help stimulate curiosity and deep thinking ideas.

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Mastery in Design Technology at Perryfields Infant School

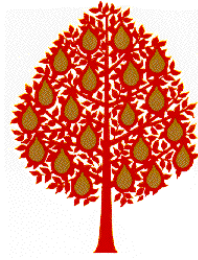
Effective mastery in Design Technology encourages all pupils to be resourceful and to explore and evaluate properties of materials to create a product.

Pupils are provided with ample opportunities to complete the Design Technology cycle which includes: research, design, creating a prototype, re-evaluate, creating a final product and evaluation. They are given time to reflect on their designs and prototypes to identify problems and seek appropriate solutions. Children are encouraged to evaluate their choice of materials and the making process, as well as work from their peers.

Pupils are encouraged to select tools to create their products independently based on their knowledge and reasoning of the design specification.

The children have the opportunity to improve their designing and making skills in a wide variety of areas such as food preparation, woodwork, model making and working with textiles.

“Experts” are used in lessons to share specific skills to promote greater learning and understanding. As a result, children can apply facts and skills learnt to solve problems in the real world.



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Mastery in PSHE at Perryfields Infant School

Effective mastery in PSHE encourages all pupils to consider their own personal values and beliefs, as well as those of others.

Pupils are provided with the opportunities to ask and respond to a variety of higher order questioning that reflect on their own values and opinions.

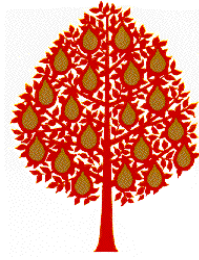
Children are encouraged to ask their own deep thinking questions and are given time to contribute to peer discussions and debates.

Pupils learn deep, rich and coherent 'powerful knowledge' that they are then able to transfer to other areas of the curriculum.

A variety of stimulus is used to develop curiosity and deep thinking ideas and children are able to apply these to a variety of written and practical activities within lessons. Pupils are encouraged to compare and contrast their own thoughts and opinions with others in a calm and respectful manner. As a result of this, pupils have a deep understanding of the actions, views and beliefs of others.

SMSC is interwoven throughout all teaching. Children are given opportunities on a daily basis to enhance their social skills through interactions with others and the half-termly core value enables children to develop moral views. The children have daily assemblies that provide spiritual enrichment opportunities and learn about a rich variety of cultures and beliefs.

The children understand and uphold the British Values. The rule of law and democracy is seen in all classrooms in the form of rules and school council. The curriculum provided teaches children about major world faiths and leads to young learners who are acceptant and respectful of all different faiths and beliefs.



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Mastery in Music at Perryfields Infant School

Effective mastery in Music encourages all pupils to think deeply and reflect on their musical preferences across a range of genres.

Higher order questioning during lessons ensures that pupils can reflect and explore a range of different musical techniques.

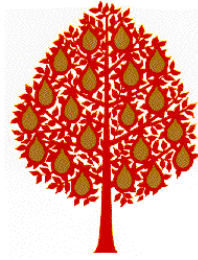
Children are encouraged to compose their own pieces of music and record using graphic score.

Children also learn to use their voices as instruments and tools to increase their enjoyment and understanding of music and the wider curriculum.

Pupils are encouraged to compare and contrast different styles of music from a range of cultures and historical periods.

High quality resources are available, such as tuned and untuned percussion instruments, which the children are able to self-select.

As a result of this, pupils have a deep understanding and appreciation of different cultural perspectives and styles of music.



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Mastery in Physical Education at Perryfields Infant School

Effective mastery in PE encourages all pupils to apply and develop a broader range of skills, learning how to use them in different ways and to link them to make actions and sequences of movement.

Children should understand and respect differences amongst their peers in physical activity settings.

All pupils learn to self-differentiate by utilising a variety of materials, resources and assessments as appropriate.

The role of the expert is used to help support those that don't have a broad knowledge of the sport, to develop skill and understanding.

Children should be able to take the individual skills they have learnt through a sequence of lessons and apply them to a game scenario as well as transferring the skills between sports.

Children are encouraged to evaluate peer and self-performance of specific skills, by giving both positive and developmental statements, orally and in writing.