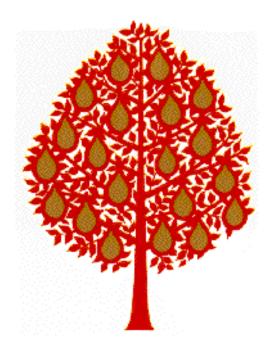
Perryfields Infant School



KS1 Curriculum Coverage and Assessment Document

Foundation subjects and science

September 2020



Perryfields Infant School

Science and Foundation Subjects

<u>Year 1</u>

Science

Block	Key knowledge (know)	Key skills (able to)
Animals – compare and identify different types	 Key features and differences between birds, fish, amphibians, reptiles, mammals and invertebrates. Know what is meant by carnivore, omnivore and herbivore. Name some animals from each group. 	 Describe and compare different animals. Sort animals into types. Sort animals by what they eat.
The Human Body	 Name and identify heart, lungs and brain. Main functions of heart, lungs and brain. Name main bones and joints. 	 Label key organs on a picture of the body. Describe the function of key organs. Label main limbs and joints.
Senses	 Name the 5 senses. Know which organ is related to each sense. 	 Label parts of the body related to senses. Perform simple tests. Collect and record data to answer questions. Observe closely to help answer questions.
Plants – structure and identification	 Basic structure of flowering plants (including trees). Name common wild and garden plants. Know what is meant by deciduous and evergreen. 	 Label parts of a plant and explain their function. Identify common plants using a key. Explain the difference between deciduous and evergreen plants and give an example of each.
Seasonal changes	Order of the seasons.How daylight changes.	 Describe typical weather in different seasons. Explain changes in daylight and the natural

	Other seasonal changes (deciduous trees, migration of birds etc.)	world during different seasons.
Materials – properties	 Understand "material" and name common ones. Understand "properties" and name some. Identify simple properties of common materials. Understand the difference between materials and objects. 	 Group materials by their properties. Separate objects from materials. Identify suitable materials for a given purpose.

Computing

Block	Key knowledge (know)	Key skills (able to)
Paint/ digital art + e-safety	 Which programs to use and how to access them. How to change size, shape and colour applied. 	 Change size and shape of brush/pen. Change colour used. Select different effects.
Coding + debugging + e- safety	 That an algorithm is a set of clear instructions to make something happen. That arrows can be used to control the distance and direction of travel. That a program will run identically each time. 	 Program a toy by specifying the number and direction of steps (and turns). Program a sprite by specifying the number and direction of steps (and turns). Change a program if it does not work as intended.
Email + e-safety Word/ keyboard	 Rules to stay safe online and who to tell if worried. Where to locate email. How to open email. How to send email. Open and save a 	 Talk about how to stay safe online. Choose addressee, compose and send email. Open and reply to email. Create a simple written
use + e-safety	 Open and cave a document. Use spaces, capitals and new lines. Undo and correct errors. 	 Make changes to a document. Make changes to a document. Save their work. Identify who might use this in the world of work.
Graphs and data + e-safety	 Create a pictogram and input data. Create a graph and add data. Add titles. Print work produced on the given program. 	 Create a simple graph using data provided. Create a simple pictogram using data provided. Print work. Identify who might use this in the world of work.

Using the internet – games online + e-safety	 Rules for staying safe online. Know how to use a search engine. Know how to locate and 	 Say how to stay safe online. Search for images or facts. Access and use games.
	navigate favourite websites.	

History

Block	Key knowledge	Key skills
Changes within living memory	 Historical vocabulary. Different sources used to find out about the recent past. How a timeline is organised (longest ago on left). 	 Use common words and phrases to talk about passage of time. Ask questions and describe events based on sources used. Order events and artefacts in a timeline.
Events in a period beyond living memory	 Key facts and dates of events studied. There may be different versions of the same event. Reasons people acted as they did in the past. 	 Recall key facts and dates. Sequence facts and dates in order. Explain that there may be different sources that tell us about events in the past. Make suggestions about why people did things and how they felt.
A significant individual from history	 What life was like at a given time in the past. Why a significant person is remembered. Key events of a famous person's life. 	 Identify similarities and differences between past and present. Recount key events from a person's life. Talk, draw and write about a famous person.

Geography

Block Continents, oceans	Key knowledgeName and locate 7	Key skillsUse maps, atlases and
and weather	 continents Name and locate 5 oceans. Identify UK and its countries. 	 globes to find places. Use terms equator and poles to explain hotter and colder areas.
Comparing UK and a non-EU country	 Basic geographical vocabulary for physical features, including weather. 	 Ask geographical questions. Make observations about similarities and

	 Basic geographical vocabulary of human features. 	 differences between places from pictures and clips. Compare weather and climate in different places.
Local area study	 Local places and features. What a map shows. 	 Draw maps. Label features on maps. Use position words (near, far, left, right, close) to describe location.

Art

Block	Key knowledge	Key skills
Drawing and painting	 Primary and secondary colours. Names of tools, materials and techniques (eg. sketch, mix, apply, media). 	 Apply colour neatly, staying within lines. Mix primary colours to make secondary. Use lines of different thickness and boldness.
Printing	 Different methods of printing. Recognise repeats of pattern, colour or both. How to carve a pattern to print. 	 Use different printing techniques. Create different repeating patterns. Use tools to create a printing block.
Sculpture and collage	 Know what sculpture and collage are. How to join materials. How to apply texture to different materials. 	 Choose and combine different materials. Create different textures using tools. Create a sculpture.

Design and technology

Block	Key knowledge	Key skills
Food technology – weighing, mixing and shaping	 Name tools and know their purpose. How to weigh accurately. How to mix ingredients. 	 Design a product based on a similar product. Use weighing and mixing techniques to make the product. Evaluate the product, saying what went well and how it could be improved.
Junk modelling	 How to measure and mark out accurately. How to join different materials. How to cut safely and accurately. 	 Design a product using materials and techniques available. Join materials to create product. Evaluate the finished product.

	 How to make structures stronger and more stable. 	
Textiles	 Names of tools and techniques – sewing, thread, stitch, embellish etc. How to join using running stitch. How to use a pattern. 	 Design a product using materials and techniques available. Join materials neatly, using sewing or glue. Evaluate the finished product.

PE

Block	Key knowledge	Key skills
Gymnastics Dance	 Types of balance. Types of roll. Different ways to move. How to land safely after a jump. Names of different movements/ dances 	 Move with awareness of space. Hold a balance. Perform different rolls and jumps safely. Remember a series of actions.
	 How to perform artistically (how to hold arms, head etc.) 	 Perform the actions in the correct time.
Athletics	 How to throw overarm. How to use arms to help jumps and running. How to run a race, from starting position, running through tape, staying in lane etc. 	 Throw accurately, looking at direction in which they are throwing and following through. Bend legs and swing arms when taking off and landing. Pace themselves when racing.
Games/ ball skills x2	 Different throwing and kicking actions. How to hold a bat or stick. Action for catching/stopping a ball. Rules of game being taught. 	 Able to pass the ball accurately. Able to gather or hit a ball. Able to work with other members of their team and move in the correct direction.
Swimming	 Names of different strokes. Arm techniques for strokes. Leg techniques for strokes. 	 Put face in water when swimming. Use correct arm and leg actions for given strokes with the aid of a float. Maintain buoyancy while swimming. Enter and leave water safely.

Music

Block	Key knowledge	Key skills
Duration	 Names of two note values and the number of beats they represent. How note values are represented on paper. 	 Able to produce long and short sounds. Reproduce sequences of two note values. Create sequences of two note values.
Pulse and rhythm	 Meaning of pulse and rhythm. Signs and symbols used to record pulse or rhythm. 	 Clap a pulse and rhythm separately. Reproduce a pulse with different instruments. Record a simple sound pattern with signs and symbols.
Pitch	 Meaning of pitch, stave and treble clef. Where on a stave high and low notes are shown. The relationship between pitch and size of instrument. 	 Create musical patterns with high and low notes. Use voice to imitate changes in pitch. Play patterns written in musical notation using combinations of FACE.
Instruments, symbols and sounds	 Italian terms for dynamics. 	 Use instruments to represent simple feelings and ideas. Recognise and describe contrasting changes in dynamics. Play patterns with widely contrasting dynamics.
Timbre, tempo and dynamics	 Understand timbre (the quality of a sound) and tempo (speed) within a widely contrasting context. 	 Play a tune at contrasting speeds. Play a tune in contrasting ways (smoothly, spikily etc.) Talk about the mood of a piece of music.
Singing and exploring music	 How to stand to project voice. How to count in so that everyone starts at the same time. 	 Sing in tune with others. Stop and start singing at the appropriate time in a piece of music. Control delivery of songs and music played.

RE

Block	Key knowledge	Key skills

Special people	 Why Jesus is special The story of Moses in the bulrushes The story of Passover 	 Identify what makes them special. Identify what makes others special to them. Talk about why Jesus is special to Christians.
Special words and stories	 Why the Bible is important Some stories from the Bible. The story of Rama and Sita told at Diwali 	 Identify why particular books are special to them. Explain what the Bible is. Retell some religious stories.
Special symbols	 Special symbols and objects for Christians. Special symbols and objects in Sikh homes. 	 Explain what is meant by a symbol. Name religious symbols and objects and say which religion they relate to.
Special things in nature	 Who St Francis was and why he is remembered. Stories about animals and water in the Quran. 	 Talk about how to care for the natural world. Write a prayer about nature.
Special ways of living	 Christian ceremonies: Eucharist (based on the Last Supper). Buddhist teachings on how to live life. 	 Identify special events in the week/ year in their lives. Explain the purpose of a ceremony studied. Create own guidelines on how to live life.
Special places	 Special places for Christians. Special objects/ places for Muslims. 	 Identify own special places and say why they are special. Name and label some features of a church.

PSHE

Block	Key knowledge	Key skills
Relationships	 Democracy – abiding by majority decision. Why we have rules and what happens if we don't follow them. What is meant by kind and fair. 	 Make positive comments about other people. Explain rules and consequences. Say whether people have acted fairly or unfairly.
Health and well- being	 Understand how to keep healthy – food, exercise, sleep, hygiene. People who can help us stay safe. 	 Talk about how to stay safe in different situations when to seek help, what to keep private. Able to manage different feelings.

	 Understand zones of regulation. 	
Living in the wider world	 Examples of communities. Some negative effects of humans on the environment. Where money comes from and why it is needed. 	 Identify communities they belong to. Talk about how they can help look after the environment. Make choices about how to spend money.

RSE

Lesson	Key knowledge (know)	Key skills (able to)
My special people	 That they can have happy relationships with family, friends and different significant people. 	 Talk about how special people in their lives make them feel.
Human life cycle	 How people change as they age (but not puberty) 	 Identify stages of a human life cycle and traits of people at those stages.
Everybody's body	That some parts of the body are private.	 Label some parts of the human body with correct labels.

<u>Year 2</u>

Science

Block	Key knowledge (know)	Key skills (able to)
What plants need to grow	 Plants need warmth, water and light to grow well. Seeds need warmth and moisture to germinate but most do not need light. That flowers are pollinated in different ways. 	 Observe and describe changes over time. Use observations to suggest answers to questions. Explain what plants need to begin to grow and to stay healthy.
Human body and teeth	 Humans need a balanced diet, enough sleep and exercise to stay healthy. The importance of hygiene to our bodies and teeth. 	 Describe the reasons for and importance of exercise. Identify elements in a balanced diet. Carry out simple tests and describe what is seen.
Living things and their habitats	 Indicators of living things. Basic needs of animals for survival. Meaning of habitat and examples of different habitats. 	 Compare things that are living, dead or never lived. Describe basic needs of animals to survive. Construct life cycles for different creatures. Identify which creatures are found in which habitats and begin to explain how they are suited to it.
Materials and changes	 Identify the ways the shape of some materials can be changed. Identify suitability of different materials for particular purposes. Understand freezing and melting as becoming solid and becoming liquid. 	 Describe the ways in which the shape of objects made from different materials can be changed. Gather and record data to help answer questions. Identify, group and classify different materials.
Light and dark	 Identify sources of light. How light travels. What happens if a solid object blocks light 	 Identify, group and classify sources of light. Use scientific language – source, emit, shadow, reflection - correctly.

		 Use simple equipment to observe closely, including changes over time. Perform simple tests to help answer questions and record findings with diagrams, words or data.
Electricity	 Identify appliances that use electricity. The sort of energy electricity can be converted into. Elements needed in an electrical circuit. 	 Identify, group and classify appliances (what energy is produced, whether electricity is mains or battery). Carry out simple tests (to create a circuit, what happens if extra elements are added).

Computing

Block	Key knowledge (know)	Key skills (able to)
Word + e-safety	 A range of features of Word. What to do if something upsets them. 	 Open and save a document. Change the style and size of writing. Insert and resize a picture.
PowerPoint +e- safety	 A range of features of PowerPoint. What to do if something upsets them. 	 Add new slide. Change background. Add animation.
Coding and Debugging + e- safety	 Meaning of algorithm is a set of clear instructions. Key vocabulary: sprite, algorithm, debug Not to click pop up links 	 Create a program to perform a task using numbers, directions and time. Add click events. Debug simple programs.
Email and blogging + e-safety	 How to stay safe online – not to share password. How to read and send an email. 	 Compose and send email. Open and read email. Contribute to class blog. Write own blog.
Using the internet + e-safety	 How to stay safe online. How to use a search engine for facts. How to use a search engine for pictures. 	 Navigate familiar websites. Add and refine searches. Explain how to keep personal information safe. Explain what is meant by personal information.
Databases + e- safety	 Writing yes/ no answers to separate data. Uses of technology in the world of work. 	 Identify differences for items on a list. Ask yes/ no questions to separate items.

	Create branching database.
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History

Block	Key knowledge	Key skills
Changes within living memory	 More complex vocabulary about the passage of time. How to read and write dates and tell which is earlier. 	 Describe similarities/ differences and changes locally and nationally in ways of life at different times. Use common words and phrases relating to the passage of time. Place events or articles on a timeline, using dates.
Events in a period beyond living memory	 Key events of the period studied. Key dates of the period studied. 	 Use historical vocabulary relating to the period in question. Describe historical events studied. Identify different ways in which the past can be learned about.
A significant individual from history	 Facts about the time in which the individual lived. Why the individual was significant. 	 Compare different people from the past. Explain why a person from the past was significant. Recount key events from the person's life, using dates.

Geography

Block	Key knowledge	Key skills
Comparison of UK and non-EU country	 Distinction between continents and countries. Some key facts about the country/ area studied. Understanding that cities and countryside areas do not face the same issues. 	 Use geographical vocabulary correctly to refer to human features. Use photographs to identify similarities and differences. Ask geographical questions about places, based on knowledge and learning.
UK countries, capitals and weather	 Usual weather patterns in different parts of the UK. Physical and human characteristics of different 	 Use compass points to describe relative locations.

	 parts of the UK (population, mountains etc). Location of capital cities of the UK. 	 Use appropriate vocabulary to describe weather. Use maps and atlases to mark places on a map.
Local area study and comparison	 Wider range of vocabulary relating to human and physical features of places. Key features and landmarks of the local area. How to interpret an aerial photograph. 	 Use appropriate vocabulary to describe features of places. Compare different places. Label features and landmarks on an aerial photograph.

Art

Block	Key knowledge	Key skills
Drawing and painting	 Tints and tones are created by adding black or white to a colour. 	 Use black and white to create tints and tones. Use black and white to show shade and texture. Use dots and lines to show shade and texture.
Collage	 How to cut and shape different materials. How to affix different materials effectively. The difference between collage and sculpture. 	 Techniques of cutting, tearing, curling, folding, crumpling. Choose different materials to represent different textures.
Taking inspiration from the greats	Name and style used by chosen artist.	 Replicate techniques of an artist – materials and their application, colours. Replicate work of an artist – subject matter. Use colour and techniques of an artist as inspiration for own work.

Design and technology

Block	Key knowledge	Key skills
Food technology – peeling, chopping, grating + packaging	 How to cut and prepare food safely. Hygiene requirements. Major ingredient and approximate times needed to cook adequately. 	 Peel, chop and grate vegetables/ fruit. Identify features of packaging. Adapt existing recipes, changing quantities.

	 Appropriate vocabulary for techniques and utensils. 	
Levers and wheels	 Vocabulary: lever, axel, hinge, winder, pivot, dowel. How to label a design with enough information but without it being confusing. Evaluating against the design brief – what to comment on. 	 Use techniques to create product with moving parts. Label a design with materials, measurements and techniques. Able to identify how a product could be improved.
Resistant materials (eg. woodwork)	 Techniques for shaping and joining resistant materials safely. Features required in a product eg. rigid, flexible, water resistant etc. Names of tools used for particular purpose. 	 Mark out accurately. Exert correct amount of pressure safely to cut and join materials. Describe features and materials of existing products.

PE

Block	Key knowledge	Key skills
Gymnastics	 The role of arms, knees and ankles in jumping. Different types of balances, stretches and rolls. How to stay safe on different apparatus. 	 Select the most appropriate skills and actions for a sequence. Perform a sequence of actions which have a clear start, middle and end Identify ways to improve own or others' performance.
Dance	 How the speed of movement can convey mood. Moves associated with particular dances. 	 Use space safely. Move with rhythm. Perform dance actions with control. Remember and repeat a series of actions in a dance.
Athletics	 How bending legs and body can help change direction. How to throw over arm. How using arms can help when jumping higher or further. The need to pace one's self when running longer distances. 	 Zig zag through a series of tightly spaced markers. Throw over arm with control. Jumping higher and further. Choose a consistent pace for the length of a race.

Games/ ball skills x2	 Different throwing and hitting actions. Action for catching/ stopping a ball. Rules of game being taught (tag rugby/ 3Ts cricket). 	 Able to throw a small ball over arm. Able to hit and direct a ball with a bat. Able to catch or stop a small ball by placing body in line to meet the flight. Able to use space and maintain position during team games.
Swimming	 How to enter and leave the pool safely. Names and actions for different strokes (revision from Y1). Names and actions for different jumps into the water. 	 Blow bubbles under water when swimming. Regain upright position from back or front float. Push and glide from the side of the pool. Use correct arm and leg actions for given strokes.

Music

Block	Key knowledge	Key skills
Duration	 Names of four note values and the number of beats they represent. How these note values are represented on paper. 	 Able to produce long and short sounds. Reproduce sequences of three different note values. Create sequences of three different note values.
Pulse and rhythm	 Meaning of pulse and rhythm. Signs and symbols used to record a pattern of pulse and rhythm simultaneously. 	 Clap a rhythm Reproduce a rhythm with different instruments. Record a sound pattern with signs and symbols.
Pitch	 Meaning of pitch, stave and treble clef. Where on a stave FACE and BAG are shown. The relationship between pitch and size of instrument and ways to alter pitch slightly. 	 Create musical patterns with high and low notes. Use voice to imitate close changes in pitch. Play patterns written in musical notation.
Instruments, symbols and sounds	 Italian terms for different dynamics. 	 Use instruments to represent more complex feelings and ideas. Recognise and describe subtle changes in simple dynamics. Play patterns with subtle dynamics.

Timbre, tempo and dynamics	 Understand timbre (the quality of a sound) and tempo (speed) 	 Play a tune at different speeds. Play a tune in several different ways (smoothly, spikily etc.) Talk about the mood of a piece of music.
Singing and exploring music	 How to stand to project voice. How to count in so that everyone starts at the same time. Understand which musical elements will be used to begin and how these may change. 	 Sing in tune with others. Stop and start singing at the appropriate time in a piece of music. Control delivery of songs and music played. Control the use of various musical elements within the piece.

RE

Block	Key knowledge	Key skills
Special things in nature	 Understand meaning of the natural world. Meaning of harvest and harvest festival. Facts about Sukkot 	 Identify things in the natural world that they think are special and why. Explain why and how harvest is celebrated.
Special places	 Meaning of pilgrimage. Some places of Christian pilgrimage. Facts about a Hindu Mandir and the home shrine for Puja. 	 Identify different places that are special to them and explain why. Compare Mandir and home shrine as places of worship.
Special ways of living	 Key elements in a Christian baptism/ wedding. Key facts about Eid ul Fitr celebration. 	 Identify whether celebrations are national, global or personal to them.
Special symbols and objects	 Christian symbols – cross, crucifix, rosary, fish Symbols and objects found in Sikh places of worship 	 Identify symbols in school and local area. Explain meaning of some religious symbols.
Special People	 Facts about Jesus eg. some stories told, or a chosen saint from the Bible. Facts about Buddha and the festival Wesak (celebrating birth and enlightening) 	 Identify special people in the local area, especially those who help them Identify how special people can be commemorated (statues, plaques, street names)
Special words and stories	 School songs and Code of Conduct Some elements of the Lord's Prayer 	 Retell the creation story from the Torah.

Understand the Torah is sacred to Jews.	 Explain how the Torah is treated with respect like a
	person.

PSHE

Block	Key knowledge	Key skills
Relationships (See also RSE)	 Begin to understand what is meant by respect. Begin to show understanding of right and wrong. Begin to understand impact of actions on others' feelings. 	 Show respect for the views of others. Show understanding that wrong choices have consequences. Show empathy with others' feelings.
Health and well- being (See also RSE)	 Identify elements in a balanced diet. Why teeth and bodies need to be kept clean. Begin to understand the emotion loss and anxiety about change. 	 Sort foods to create a balanced diet. Identify situations that may cause feelings of loss or anxiety. Set themselves achievable goals.
Living in the wider world	 Understand needs and the responsibility of a community to help meet them. Begin to understand carbon footprint. Understand saving is a choice for the use of money. 	 Identify ways to reduce their carbon footprint. Identify which products are essentials/ necessities.

RSE

Lesson	Key knowledge (know)	Key skills (able to)
My special people	 That not all families are the same but they should all be loving. 	 Identify key characteristics of a family (two or more people living as a unit) and different types of family.
Human life cycle	 How people's needs change as they grow and age (hygiene, food, sleep, emotions). 	 Identify some changes in physical needs throughout life.
Everybody's body	 Correct terminology for private parts of the body. 	Use terms penis and vagina correctly.