



British International School – HCMC

Science Curriculum Map

Academic Year 2024 - 2025

Key

	Biology		Key Stage 1
	Chemistry		Key Stage 2
	Physics		Key Stage 3
	Investigative skills		

Science	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
EYFS	Guid children to make sense of their physical world and their community through opportunities to explore, observe and find out about people and communities , the World , its places, technology , and the environment.					
Year 1	Animals Including humans Recognise, describe and sort common animals.	Materials Identify and sort common materials by their properties.	Plants Identify and describe common plants and their basic structure.	Light Children begin to learn about light sources and shadows.	Seasonal Changes Identify differences in changes across seasons in both temperate and tropical regions.	
	INVESTIGATIVE SKILLS Ask simple questions and make predictions. Observe using simple equipment and perform simple tests, with help. Identify a method of presenting data.					



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	Use observations and ideas to answer simple questions. With support, describe what they observe and discuss what they would do differently in a future investigation.					
Year 2	Living Things and their Habitats Explore differences between living, dead and non-living. Identify how habitats provide for different needs and how animals obtain food.	Plants Explore how seeds and bulbs grow into mature plants and the conditions required for this.	Sound Observe and name sources of sound, recognise we use our ears and that distance affects perception.	Uses of Everyday Materials Identify and compare materials and their suitability for different applications.	Animals Including Humans Notice that animals have offspring and that different animals have different needs in order to stay healthy.	
	INVESTIGATIVE SKILLS Ask simple questions and recognise that they can be answered in different ways and make predictions. Independently select and use simple and appropriate equipment to perform tests. Begin to decide how to record observations from a choice of familiar approaches. Talk about what they have found out explaining what happened in relation to their predictions. Based on observations, describe what they would change about an investigation and why.					
Year 3	Rocks Sort rocks by properties and formation, understanding how they are made and what they are made from.	Forces and Magnets Recognise how magnets attract and repel each other, based on their polar properties, and compare magnetic and nonmagnetic materials.	Animals Including Humans Identify that animals cannot make their own food and get nutrients from what they eat. Identify how some animals use skeletons and muscles for support, protection and movement.	Light Recognise that objects can be seen as light is reflected from their surfaces and how shadows change depending on the translucency of the material casting a shadow and the position of the light source.	Plants Identify and describe parts of flowering plants, their functions as well as the requirements of plants for life and growth.	



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Year 4	INVESTIGATIVE SKILLS Will usually ask relevant questions about the world around them and make predictions drawing on prior knowledge. Make decisions about what observations to make. Make careful observations and, where appropriate, take measurements using standard units, using a range of equipment. Begin to recognise why a fair test is necessary and help to decide how to set it up. Identify more than one variable factor in an investigation. Suggest some improvements that could be made to an investigation. Gather, record, classify and present data in a variety of ways to help in answering questions. Identify patterns in results and use them to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.				
	States of Matter Begin to learn about the states of matter and changes between them, understanding this in the context of the water cycle.	Electricity Recognise electrical appliances and key components in a circuit, including switches, conductors and insulators.	Animals Including Humans Learn the functions and names of the organs in the human digestive system, including the different types of teeth. Begin to understand Food chains and ecosystems.	Living Things Name living things in the environment and recognise how the environment can sometimes pose dangers.	Sound Explore how sounds are made, associating the sounds with vibrations and patterns between pitch and volume and the strength and speed of vibrations.
INVESTIGATIVE SKILLS Ask relevant questions and make reasonable predictions drawing on prior knowledge. Decide which types of enquiry will be the best at answering questions. Help to make decisions about what observations to make, how long to make them for and the type of simple equipment that might be used. Set up simple practical enquiries that utilise comparative and fair tests. Carry out simple comparative fair tests by making systematic and careful observations and, where appropriate, taking accurate measurements using standard units and a range of equipment. Report and present findings from enquiries using familiar methods. Gather, record, classify and present data in a variety of ways to help in answering questions. Identify patterns in results and use them to draw simple conclusions, make predictions for new values, suggest improvements and raise further					



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	questions.					
Year 5	Earth and Space Learn about planets and moons and their movements and about the effects of gravity.	Properties and Materials Learn about mixing and separating materials, including dissolving, filtering, sieving and evaporating.	Animals Including Humans Children learn about the life cycles of a variety of amphibians, insects, birds and mammals, including humans.	Forces Children continue to develop their understanding of gravity and begin to consider the effects of friction and air-resistance.	Famous Scientists Children develop skills of ICT and research while finding out about the social impact of famous or important scientists.	
	INVESTIGATIVE SKILLS: Use previous knowledge to develop research questions and make predictions, identifying and suggesting control and independent variables. Recognise and select some appropriate equipment to complete an investigation. Independently identify suitable methods for recording data and results of increasing complexity using a variety of techniques. Form a basic conclusion from given data and test results to make predictions for future investigations. Suggest some of the limitations of their investigations.					
Year 6	Animals Including Humans Develop understanding of the circulatory system and a healthy lifestyle, recognising the impact of diet, exercise and drugs on the way the body and organs function.	Evolution and Inheritance Learn that living things evolve through natural selection and that species gradually change over time to better suit their environment.	Living Things Develop their understanding of classifying living things according to observable characteristics, including microorganisms, plants and animals.	Electricity Develop understanding of the relationship between input and output power within a circuit, including changes in the number of cells and components, confidently using symbols in diagrams.	Light & Seeing Develop understanding of how light travels and is perceived by the eye.	
	INVESTIGATIVE SKILLS Identify key control variables, selecting and naming appropriate equipment to address a research question. Take measurements, using a range of equipment, with increased accuracy and precision independently using the most appropriate equipment. Present results independently using suitable methods.					



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	Form a conclusion based on interpreting data and finding patterns. Make informed decisions about what would happen in future investigations if different variables were changed.					
Year 7						