





## Vision

**Our vision is to give children a science curriculum which enables them to explore and discover the world around them, confidently, so that they have a deeper understanding of the world we live in.**

Intent	Implementation	Impact
<p>It is our intention to recognise the importance of Science in every aspect of daily life. The scientific area of learning is concerned with increasing pupils' knowledge and understanding of our world, and with developing skills associated with Science as a process of inquiry. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence. We intend to build a Science curriculum which enables children to become enquiry based learners collaborating through researching, investigating and evaluating experiences.</p>	<p>To ensure science is taught successfully at Doha British School, every child will be given a knowledge organiser for topics which includes all vocabulary and knowledge that children should master. A clear and concise lesson sequence is followed and lessons are planned in line with the National Curriculum where teaching and learning should show progression across all key stages within strands of Science. Practical, engaging experiments and hooks at the beginning of each unit. Opportunities to build on prior knowledge and link ideas together, enabling children to ask questions and become enquiry based learners. Challenge questions for pupils to apply their learning in a philosophical/open manner. Finally, opportunities for trips and visits from experts who will enhance the learning experience.</p>	<p>The children at DBS are passionate about science and enjoy talking about what they have learnt and how they achieved this learning. They are able to use a range of appropriate scientific vocabulary when talking about their learning, and are confident in using a range of sources to prompt and support these discussions (e.g. investigations, science books, working walls). By designing a progressive curriculum relevant to the children at Doha British School, we have ensured that children become confident in their own scientific ability and so are able to make links within what they have learnt. Children at DBS enjoy science and this results in motivated learners with sound scientific understanding.</p>



## Key Vocabulary

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Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>Working scientifically KS1</b></p> <ul style="list-style-type: none"> <li>• Investigation</li> <li>• Enquiry</li> <li>• what to change</li> </ul>		<p><b>Working scientifically KS2</b></p> <ul style="list-style-type: none"> <li>• Investigation</li> <li>• Enquiry</li> <li>• Prediction</li> </ul>		<ul style="list-style-type: none"> <li>• Variable</li> <li>• dependent variable</li> <li>• independent variable</li> <li>• Constant</li> <li>• Patterns</li> <li>• Equipment</li> <li>• Apparatus</li> <li>• Method</li> <li>• Results</li> <li>• Conclusion</li> </ul>	
<p><b><u>Animals including humans</u></b> Fish, Reptiles, Mammals, Birds, Amphibians, Herbivore, Carnivore, Omnivore, head, ear, eye, mouth, nose, leg, knee, arm, elbow, back, wings, beak</p> <p><b><u>Plants</u></b> Evergreen &amp; deciduous trees, branches, trunk, leaves, flowers, petals, fruit, roots, bulb, seed, stem,</p> <p><b><u>Everyday Materials</u></b> Material, wood, plastic, glass, paper, fabric, metal, rock, hard, soft, smooth, shiny, rough, bendy, flexible</p> <p><b><u>Seasonal changes</u></b> Summer, Spring, Autumn, Winter, Season, Sun, day, Moon, Night, light, dark</p>	<p><b><u>Animals including humans</u></b> Survival, water, air, oxygen, food, adult, baby, offspring, kitten, calf, puppy, foal Exercise, hygiene</p> <p><b><u>Plants</u></b> Seeds, bulb, water, light, temperature, growth, roots, stem, leaves, petals</p> <p><b><u>Living things and their habitats</u></b> Living, dead, habitat, microhabitat energy, food chain, prey, predator woodland, pond, desert,</p> <p><b><u>Materials &amp; their uses</u></b> stiff, shiny, dull, rough, smooth, waterproof, absorbent, transparent, opaque, brick, fabric, foil, squashing, bending, twisting, stretching, elastic</p>	<p><b><u>Animals including humans</u></b> Bones, muscles, skull, ribs, skeleton, support, protection, movement, herbivore, carnivore, omnivore, teeth, canine, incisor, molar</p> <p><b><u>Plants</u></b> Air, light, water, soil, nutrients, reproduction, seed formation, dispersal, germination, pollination, transportation, species, location (photosynthesis)</p> <p><b><u>Rocks &amp; soils</u></b> Sandstone, limestone, granite, marble, pumice, slate, crystals, properties, permeable / impermeable, hardness, sedimentary, igneous, metamorphic, fossils, soil, organic matter, humus</p>	<p><b><u>Animals including humans</u></b> Mouth, tongue, teeth, canine, incisor, molar, oesophagus, stomach, small intestine, large intestine, herbivore, carnivore, omnivore</p> <p><b><u>Light</u></b> Light, dark, shadows, blocking, mirror, reflect, reflective, reflection,</p> <p><b><u>Forces &amp; Magnets</u></b> Force, push, pull, contact, magnetic, attract, repel, poles (north / south) Friction, resistance</p>	<p><b><u>Animals including humans</u></b> Foetus, embryo, womb, gestation, baby, toddler, teenager, <b>puberty</b>, adolescent, adult, elderly, development, growth</p> <p><b><u>Living things and their habitats</u></b> Fish, Reptiles, Mammals, Birds, Amphibians, snails, slugs, worms, spiders, insects, environment, habitat, vertebrate, invertebrate, exo skeleton, adaptation</p> <p><b><u>States of matter</u></b> .Solid, liquid, gas, temperature, heating, freezing point, boiling point, particles, evaporation, condensation, Thermometer, thermal insulation</p> <p><b><u>Sound</u></b> Volume, vibration, sound wave, loud, soft, high pitch, low pitch, tone, speaker, (amplitude, frequency)</p> <p><b><u>Electricity</u></b> Cells ( batteries) wires, switches, circuit, series (parallel, buzzers, bulbs, Mains electricity insulators, conductors</p>	<p><b><u>Animals including humans</u></b> Heart, Blood ,Circulatory system, blood vessels, veins, arteries, valves, oxygenated, deoxygenated, exercise, pulse, respiration</p> <p><b><u>Living things and their habitats</u></b> Classification, mammals, birds, amphibians, fish, reptiles, insects vertebrates, invertebrates, microorganisms, bacteria, fungi</p> <p><b><u>Evolution &amp; Inheritance</u></b> Fossils, adaptation, evolution, characteristics, reproduction, genetics</p> <p><b><u>Light</u></b> Reflection, refraction, lens, light spectrum, colour ,prism, rainbow,</p> <p><b><u>Electricity</u></b> Cells, batteries, wires, bulbs, switches, buzzers, circuit, series/ parallel, conductors, insulators, amps, volts</p>





## Progression of Skills

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Skills	<ul style="list-style-type: none"> <li>• Ask simple questions and recognise that they can be answered in different ways.</li> <li>• Use simple equipment to observe closely).</li> <li>• Perform simple tests.</li> <li>• Identify and classify.</li> <li>• Use his/her observations and ideas to suggest answers to questions.</li> <li>• Gather and record data to help in answering questions.</li> </ul>	<ul style="list-style-type: none"> <li>• Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum.</li> <li>• Use simple equipment to observe closely including changes over time.</li> <li>• Perform simple comparative tests.</li> <li>• Identify, group and classify.</li> <li>• Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns.</li> <li>• Gather and record data to help in answering questions including from secondary sources of information.</li> </ul>	<ul style="list-style-type: none"> <li>• Ask relevant questions and use different types of scientific enquiries to answer them.</li> <li>• Set up simple practical enquiries, comparative and fair tests.</li> <li>• Make systematic and careful observations using equipment where appropriate.</li> <li>• Gather, record, classify and present data in a variety of ways.</li> <li>• Record findings using simple scientific language presented in different ways.</li> <li>• Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>• Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</li> <li>• Identify differences, similarities or changes related to simple scientific ideas and processes.</li> <li>• Use straightforward scientific evidence to answer questions or to support his/her findings.</li> </ul>	<ul style="list-style-type: none"> <li>• Ask relevant questions and use an understanding of different types of scientific enquiries to best answer them.</li> <li>• Set up simple practical enquiries, comparative and fair tests.</li> <li>• Make systematic and careful observations and where appropriate, take accurate measurements using standard units, using a range of equipment including thermometers and data loggers.</li> <li>• Gather, record, classify and present data in a variety of ways to help in answering questions.</li> <li>• Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>• Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>• Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions .</li> <li>• Identify differences, similarities or changes related to simple scientific ideas and processes.</li> </ul>	<ul style="list-style-type: none"> <li>• Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</li> <li>• Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</li> <li>• Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</li> <li>• Use test results to make predictions to set up further comparative and fair tests.</li> <li>• Report and present findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.</li> <li>• Identify scientific evidence that has been used to support or refute ideas or arguments.</li> </ul>	<ul style="list-style-type: none"> <li>• Plan different types of scientific enquiries to answer their own or others' questions, including recognising and controlling variables where necessary.</li> <li>• Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</li> <li>• Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</li> <li>• Use test results to make predictions to set up further comparative and fair tests.</li> <li>• Use test results to make predictions to set up further comparative and fair tests.</li> <li>• Report and present findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.</li> <li>• Identify scientific evidence that has been used to support or refute ideas or arguments.</li> </ul>
	<p><b>Children are taught to:</b> <b><u>Animals, including humans</u></b></p> <ul style="list-style-type: none"> <li>• Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</li> <li>• identify and name a variety of common animals</li> </ul>	<p><b>Children are taught to:</b> <b><u>Animals, including humans</u></b></p> <ul style="list-style-type: none"> <li>• notice that animals, including humans, have offspring which grow into adults</li> <li>• find out about and describe the basic needs of animals,</li> </ul>	<p><b>Children are taught to:</b> <b><u>Animals, including humans</u></b></p> <ul style="list-style-type: none"> <li>•identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat</li> <li>• identify that humans and</li> </ul>	<p><b>Children are taught to:</b> <b><u>Animals, including humans</u></b></p> <ul style="list-style-type: none"> <li>•describe the simple functions of the basic parts of the digestive system in humans</li> <li>•identify the different types of teeth in humans and their simple functions</li> <li>•construct and interpret a variety of</li> </ul>	<p><b>Children are taught to:</b> <b><u>Animals, including humans</u></b></p> <ul style="list-style-type: none"> <li>• describe the changes as humans develop to old age.</li> </ul> <p><b><u>Forces</u></b></p> <ul style="list-style-type: none"> <li>•explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</li> </ul>	<p><b>Children are taught to:</b> <b><u>Animals including humans.</u></b></p> <ul style="list-style-type: none"> <li>identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</li> <li>• recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</li> </ul>



	<p>that are carnivores, herbivores and omnivores</p> <ul style="list-style-type: none"> <li>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)</li> <li>identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</li> </ul> <p><b>Seasonal Change</b></p> <ul style="list-style-type: none"> <li>observe changes across the four seasons</li> <li>observe and describe weather associated with the seasons and how day length varies.</li> </ul> <p><b>Everyday Materials</b></p> <ul style="list-style-type: none"> <li>distinguish between an object and the material from which it is made - identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</li> <li>describe the simple physical properties of a variety of everyday materials</li> <li>compare and group together a variety of everyday materials on the basis of their simple physical properties.</li> </ul> <p><b>Plants</b></p> <ul style="list-style-type: none"> <li>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</li> <li>Identify and describe the basic structure of a variety of common flowering plants, including trees.</li> </ul>	<p>including humans, for survival (water, food and air)</p> <ul style="list-style-type: none"> <li>describe the importance of humans of exercise, eating the right amounts of different types of food, and hygiene.</li> </ul> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>explore and compare the differences between things that are living, dead, and things that have never been alive</li> <li>identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other</li> <li>identify and name a variety of plants and animals in their habitats, including microhabitats</li> <li>describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.</li> </ul> <p><b>Uses of everyday materials</b></p> <ul style="list-style-type: none"> <li>identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</li> <li>find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> </ul> <p><b>Plants</b></p> <ul style="list-style-type: none"> <li>observe and describe how seeds and bulbs grow into mature plants</li> <li>find out and describe how plants need water, light and a suitable temperature to grow and</li> </ul>	<p>some other animals have skeletons and muscles for support, protection and movement.</p> <p><b>Forces and magnets -</b></p> <ul style="list-style-type: none"> <li>compare how things move on different surfaces</li> <li>notice that some forces need contact between two objects, but magnetic forces can act at a distance</li> <li>observe how magnets attract or repel each other and attract some materials and not others</li> <li>compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials</li> <li>describe magnets as having two poles - predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul> <p><b>Rocks</b></p> <ul style="list-style-type: none"> <li>compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>recognise that soils are made from rocks and organic matter.</li> </ul> <p><b>Light</b></p> <ul style="list-style-type: none"> <li>recognise that they need light in order to see things and that dark is the absence of light</li> <li>notice that light is reflected from surfaces</li> <li>recognise that light from the sun can be dangerous and that there are ways to protect their eyes</li> <li>recognise that shadows are formed when the light from a light source is blocked by an opaque object</li> <li>find patterns in the way that</li> </ul>	<p>food chains, identifying producers, predators and prey.</p> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>recognise that living things can be grouped in a variety of ways</li> <li>explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment</li> <li>recognise that environments can change and that this can sometimes pose dangers to living things.</li> </ul> <p><b>Sound</b></p> <ul style="list-style-type: none"> <li>identify how sounds are made, associating some of them with something vibrating</li> <li>recognise that vibrations from sounds travel through a medium to the ear</li> <li>find patterns between the pitch of a sound and features of the object that produced it</li> <li>find patterns between the volume of a sound and the strength of the vibrations that produced it</li> <li>recognise that sounds get fainter as the distance from the sound source increases.</li> </ul> <p><b>States of matter</b></p> <ul style="list-style-type: none"> <li>compare and group materials together, according to whether they are solids, liquids or gases</li> <li>observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)</li> <li>identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</li> </ul> <p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>identify common appliances that run on electricity</li> <li>construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</li> <li>identify whether or not a lamp will</li> </ul>	<ul style="list-style-type: none"> <li>identify the effects of air resistance, water resistance and friction, that act between moving surfaces</li> <li>recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.</li> </ul> <p><b>Properties and changes of materials</b></p> <ul style="list-style-type: none"> <li>compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets</li> <li>know that some materials will dissolve in liquid to form a solution</li> <li>use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</li> <li>give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic</li> <li>demonstrate that dissolving, mixing and changes of state are reversible changes</li> <li>explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.</li> </ul> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</li> <li>describe the life process of reproduction in some plants and animals.</li> </ul> <p><b>Earth and space</b></p> <ul style="list-style-type: none"> <li>describe the movement of the</li> </ul>	<ul style="list-style-type: none"> <li>describe the ways in which nutrients and water are transported within animals, including humans.</li> </ul> <p><b>Light</b></p> <ul style="list-style-type: none"> <li>recognise that light appears to travel in straight lines</li> <li>use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye</li> <li>explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes</li> <li>use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</li> </ul> <p><b>Evolution and inheritance</b></p> <ul style="list-style-type: none"> <li>recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</li> <li>recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</li> <li>identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</li> </ul> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals</li> <li>give reasons for classifying plants and animals based on specific characteristics.</li> </ul> <p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</li> <li>compare and give reasons for variations in how components function, including the brightness of</li> </ul>
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		stay healthy.	the size of shadows change. <b>Plants</b> •identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers • explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant •investigate the way in which water is transported within plants • explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery •recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit • recognise some common conductors and insulators, and associate metals with being good conductors.	Earth, and other planets, relative to the Sun in the solar system • describe the movement of the Moon relative to the Earth • describe the Sun, Earth and Moon as approximately spherical bodies • use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	bulbs, the loudness of buzzers and the on/off position of switches • use recognised symbols when representing a simple circuit in a diagram.
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