## Milestone 1 \& 2a

Science - Lower School (Cycle A)

|  | Basic: | Expected: | Deep: |
| :--- | :--- | :--- | :--- |
| Working scientifically (Y1 \& Y2) |  |  |  |
| Ask simple questions. |  |  |  |
| Observe closely, using simple equipment. |  |  |  |
| Perform simple tests. |  |  |  |
| Identify and classify. |  |  |  |
| Use observations and ideas to suggest answers to questions. |  |  |  |
| Gather and record data to help in answering questions. |  |  |  |
| Working scientifically (Y3) |  |  |  |
| Ask relevant questions. |  |  |  |
| Set up simple, practical enquiries, comparative and fair tests. |  |  |  |
| Make systematic and careful observations. |  |  |  |
| Take accurate measurements using standard units, using a <br> range of equipment, e.g. thermometers and data loggers. |  |  |  |
| Gather data in a variety of ways to help answer questions. |  |  |  |
| Record data in a variety of ways to help answer questions. |  |  |  |
| Classify data in a variety of ways to help answer questions. |  |  |  |
| Present data in a variety of ways to help answer questions. |  |  |  |
| Record findings using simple scientific language, drawings, <br> labelled diagrams, keys, bar charts and tables. |  |  |  |
| Report on findings from enquiries, including oral and written <br> explanations, displays or presentations of results and <br> conclusions. |  |  |  |
| Use results to draw simple conclusions. |  |  |  |
| Use results to make predictions for new values. |  |  |  |
| Use results to suggest improvements. |  |  |  |
| Use results to raise further questions. |  |  |  |
| Identify differences, similarities or changes related to simple, <br> Scientific ideas and processes. <br> Compare how different things move (pushing/pulling forces, <br> where there is contact between two objects). <br> the effects of friction on different surfaces). |  |  |  |
| Use straightforward, scientific evidence to answer questions <br> or to support their findings. |  |  |  |
| Animals, including humans: The Human Bodigating |  |  |  |
| Identify, the basic parts of the human body. |  |  |  |
| Name the basic parts of the human body. |  |  |  |
| Draw and label the basic parts of the human body. |  |  |  |
| Identify which part of the body is associated with each sense. |  |  |  |
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Science - Lower School (Cycle A)

|  | Basic: | Expected: | Deep: |
| :--- | :--- | :--- | :--- |
| Observe how magnets attract some materials and not others. |  |  |  |
| Compare and group together a variety of everyday materials <br> on the basis of whether they are attracted to a magnet. |  |  |  |
| Identify examples of everyday materials that are attracted to <br> a magnet (magnetic materials). |  |  |  |
| Describe magnets as having two poles. |  |  |  |
| Predict whether two magnets will attract or repel each other, <br> depending on which poles are facing. |  |  |  |
| Explain that unsupported objects fall towards the Earth <br> because of the force of gravity acting between the Earth and <br> the falling object. |  |  |  |
| Identify the effect of air resistance that acts between moving <br> surfaces. |  |  |  |
| Identify the effect of water resistance that acts between <br> moving surfaces. |  |  |  |
| Identify the effect of friction that acts between moving <br> surfaces. |  |  |  |
| Recognise that some mechanisms including levers, pulleys and <br> gears allow a smaller force to have a greater effect. |  |  |  |
| Everyday Materials: Wood \& Rock |  |  |  |
| Distinguish between an object and the material from which it <br> is made. |  |  |  |
| Identify a variety of everyday materials, for example: brick, <br> paper, cardboard, including wood and rock. |  |  |  |
| Name a variety of everyday materials, for example: brick, <br> paper, cardboard, including wood and rock. |  |  |  |
| Describe the simple physical properties of a variety of <br> everyday materials, for example: brick, paper, cardboard, <br> for particular uses. <br> including wood and rock. |  |  |  |
| Compare a variety of everyday materials*, on the basis of <br> their simple physical properties. <br> *e.g. brick, paper, cardboard, including wood and rock. |  |  |  |
| Group together a variety of everyday materials*, on the basis <br> of their simple physical properties. <br> *e.g. brick, paper, cardboard, including wood and rock. <br> *esticular uses. |  |  |  |
| Find out how the shapes of solid objects made from some <br> materials can be changed by squashing, bending, twisting and <br> stretching. |  |  |  |

Milestone 1 \& 2a
Science - Lower School (Cycle A)

|  | Basic: | Expected: | Deep: |
| :---: | :---: | :---: | :---: |
| Plants: Flowering plants |  |  |  |
| Identify a variety of common wild and garden plants. |  |  |  |
| Name a variety of common wild and garden plants. |  |  |  |
| Identify the basic structure of a variety of common flowering plants. |  |  |  |
| Describe the basic structure of a variety of common flowering plants. |  |  |  |
| Observe how seeds and bulbs grow into mature plants. |  |  |  |
| Describe how seeds and bulbs grow into mature plants. |  |  |  |
| Find out how plants need water, light and a suitable temperature to grow and stay healthy. |  |  |  |
| Describe how plants need water, light and a suitable temperature to grow and stay healthy. |  |  |  |
| Identify the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. |  |  |  |
| 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). |  |  |  |
| Explore how the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) vary from plant to plant. |  |  |  |
| Investigate the way in which water is transported within plants. |  |  |  |
| Animals, including humans: Fish and insects including Life Cycles |  |  |  |
| Identify a variety of common animals: fish and insects. |  |  |  |
| Name a variety of common animals: fish and insects. |  |  |  |
| Investigate and describe the basic needs of animals, for survival (water, food and air). |  |  |  |
| Describe the ways in which nutrients and water are transported within animals. |  |  |  |
| Identify a variety of common animals that are carnivores, herbivores and omnivores. |  |  |  |
| Name a variety of common animals that are carnivores, herbivores and omnivores. |  |  |  |
| Describe the structure of a variety of common animals: fish and insects, including pets. |  |  |  |
| Compare the structure of a variety of common animals: fish and insects, including pets. |  |  |  |

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| Identify the life cycles of fish and insects. |  |  |  |
| Describe the differences between the life cycles of fish and <br> insects. |  |  |  |
| Describe the life process of reproduction in some fish and <br> insects. |  |  |  |
| Notice that animals have offspring which grow into adults. |  |  |  |
| Living things and their habitats: Ponds \& Rivers |  |  |  |
| Explore and compare the differences between things that are <br> living, that are dead and that have never been alive. |  |  |  |
| Identify that most living things live in habitats to which they <br> are suited. |  |  |  |
| Describe how different habitats provide for the basic needs of <br> different kinds of animals and plants. |  |  |  |
| Describe how animals and plants living in the same habitat <br> depend on each other. |  |  |  |
| Identify and name a variety of plants and animals in their <br> habitats, including micro-habitats. |  |  |  |
| Describe how animals obtain their food from plants and other <br> animals, using the idea of a simple food chain, and identify <br> and name different sources of food. |  |  |  |

