

Science Long Term Plan – Updated 2020

Key Stage 1 – Year 1 and Year 2:

Cycle A

Living Things and their Habitats - Why does a Polar Bear not live in Africa?

Animals including Humans - Why should humans exercise?

Use of Everyday Materials - Why do boats float?

Plants - Can seeds grow anywhere?

Seasonal Change – Why do leaves change colour?

Cycle B

Living Things and their Habitats – How does a tadpole change over time?

Animals including Humans – Do all animals eat meat?

Use of Everyday Materials – Why don't we build houses out of straw?

Plants – Why should you not keep plants in the bedroom?

Seasonal Change – Why does the weather change?

Note: It is up to the Teacher in each class which topic they choose to teach within the cycle being taught to suit them best. All topics will be covered over the year in each cycle.

Ongoing:

Working scientifically – scientific methods, processes and skills

Seasons weeks – Autumn, Spring and Summer

Science Week – Whole School

Building on prior knowledge when recapping a topic

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Lower Key Stage 2 - Year 3 and Year 4

Cycle A

Living things and their Habitats - Why are people cutting down the rainforest and what affect does it have?

Animals including Humans - What is the job of our teeth?

Forces and Magnets - Why do magnets attract?

Light - How does light travel?

Cycle B

Materials - Rocks and Fossils - How do fossils form?

Electricity - How has electricity changed the way we live?

Sound - How far does sound travel?

States of Matter - Why does ice melt?

Plants – Why do plants need water?

Note: It is up to the Teacher in each class which topic they choose to teach within the cycle being taught to suit them best. All topics will be covered over the year in each cycle.

Ongoing:

Working scientifically – scientific methods, processes and skills

Seasons weeks – Autumn, Spring and Summer

Science Week – Whole School

Building on prior knowledge when recapping a topic

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Upper Key Stage 2 – Year 5 and Year 6

Cycle A

Animals including Humans - How does our heart keep us alive?

Evolution and Inheritance - How do we know that fossils were once living organisms and not a peculiar type of rock?

Forces - What forces are used at the circus?

Light - How do we see light?

Cycle B

Living things and their habitats including Plants - Are life cycles the same in humans, plants and animals?

Electricity - Where does electricity come from?

Earth and Space - Are people upside down in Australia?

Properties of changes of Materials - How is wool the same as glass?

Note: It is up to the Teacher in each class which topic they choose to teach within the cycle being taught to suit them best. All topics will be covered over the year in each cycle.

Ongoing:

Working scientifically – scientific methods, processes and skills

Seasons weeks – Autumn, Spring and Summer

Science Week – Whole School

Building on prior knowledge when recapping a topic

*Upper Key Stage 2 – Rocks, Sound and States of Matter may be revisited to build upon prior knowledge.

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EYFS

*EYFS topics are child – led and therefore these topics are subject to change. Additionally, these Science topics are linked through the class topic that term.

<u>Cycle A</u>
The Human Body and Growth
Seasonal Change
Electricity
Materials

<u>Cycle B</u>
The Human Body and Growth
Seasonal Change
Plants and Animals
Materials

Note: It is up to the Teacher in each class which topic they choose to teach within the cycle being taught to suit them best. All topics will be covered over the year in each cycle.

Ongoing:

Working scientifically – scientific methods, processes and skills

Seasons weeks – Autumn, Spring and Summer

Science Week – Whole School

Building on prior knowledge when recapping a topic