## **Year Five** Science Unit 5

### Animals, including humans



LO: I can create a timeline showing the different stages of human development.	
LO: I can explain what puberty is.	
LO: I can understand the concept that life expectancy	
differs between different species.	
LO: I can investigate whether animals with longer life	
expectancies have longer gestation periods.	
LO: I can create a graph displaying life expectancy and	
gestation period for different animals.	

## Year Four

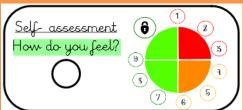
LO: I can describe the simple functions of the basic parts of the digestive system in humans

LO: I can identify the different types of teeth in humans and their simple functions

LO: I can construct and interpret a variety of food chains, identifying producers, predators and prey.

Year Five	
Science	
Working scientifically	
I can plan different kinds of fair	
experiments.	
I can tell you how I control	
variables in my experiments.	
I can take accurate measurements	
using a range of difference	
equipment.	
Tell you why it's important to take	
repeated measurements.	
I can label scientific diagrams.	
I can use classification keys.	
I can use and produce bar graphs.	
I can use and produce line graphs.	
I can make predictions.	
I can present my findings in an oral	
presentation.	
I can tell you about other	
experiments that have been done	
to support or disapprove idea.	

## Year Five Science Unit 1



LO: I can understand that friction is the force that occurs when two objects	
move over each other.	
LO: I can identify whether forces are balanced or unbalanced.	
LO: I can research Isaac Newton and explore the relationship between	
weight and mass.	
LO: I can investigate the effects of air resistance.	
LO: I can write my own experiment on the effects of water resistance.	

Year Four	
Science	
States of matter	
LO: I can compare how things move on	
different surfaces	
LO: I can notice that some forces need	
contact between two objects, but	
magnetic forces can act at a distance	
LO: I can observe how magnets attract	
or repel each other and attract some	
materials and not others	
LO: I can 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	
LO: I can describe magnets as having	
two poles	
LO: I can predict whether two magnets	
will attract or repel each other,	
depending on which poles are facing.	

Year Five	
Science	
I can plan different kinds of fair	
experiments.	
I can tell you how I control variables in	
my experiments.	
I can take accurate measurements using	
a range of difference equipment.	
Tell you why it's important to take	
repeated measurements.	
I can label scientific diagrams.	
I can use classification keys.	
I can use and produce bar graphs.	
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that have been done to support or	
disapprove idea.	

# Year Five Science Unit 4 Living things and their habitats LO: I can describe the life cycle of a plant LO: I can explain how plants reproduce LO: I can compare how different animals reproduce and grow LO: I can write up the life cycle of a butterfly LO: I can describe and compare the life cycles of a range of different animals LO: I can explore the work of David Attenborough

Year Four Science States of matter	
I can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers	
I can 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	
I can investigate the way in which water is transported within plants	
I can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	

Year Five	
Science	
I can plan different kinds of fair experiments.	
I can tell you how I control variables in my	
experiments.	
I can take accurate measurements using a	
range of difference equipment.	
Tell you why it's important to take repeated	
measurements.	
I can label scientific diagrams.	
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I can use and produce bar graphs.	
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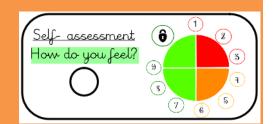
## Year Five Science Unit 2 Space LO: I know the shape and relative size of the Earth, Sun and the Moon LO: I can name and describe features of the planets in our solar system LO: I can understand why our shadows change and explain why we have day and night LO: I can label the phases of the lunar cycle LO: I can explore the work of famous space pioneers

Year Four	
Science	
States of matter	
LO: I can observe changes across	
the four seasons.	
LO: I can observe and describe	
weather associated with the	
seasons and how day length	
varies.	

Year Five	
Science	
Working scientifically	
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experiments.	
I can tell you how I control variables in	
my experiments.	
I can take accurate measurements using	
a range of difference equipment.	
Tell you why it's important to take	
repeated measurements.	
I can label scientific diagrams.	
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I can use and produce bar graphs.	
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that have been done to support or	
disapprove idea.	

## Year Five Science Unit 3

## Properties and changes of materials



LO: I can compare and group together everyday materials based on the basis of their	
properties, including their hardness, solubility, transparency, conductivity (electrical and	
thermal) and their response to magnets.	
LO: I can learn the difference between soluble and insoluble materials	
LO: I can present my results in a line graph and evaluate and conclude an experiment.	
LO: I can use knowledge of solids, liquids and gases to decide how mixtures might be	
separated, including through filtering, sieving and evaporating.	
LO: I can use my knowledge of separating materials to investigate unknown substances.	
LO: I can understand reversible and irreversible changes.	

Year Four	
Science States of matter	
LO: I can compare and group materials together, according to whether they are solids, liquids or gases.	
LO: I can observe that some materials change state when they are heated or cooled (measuring temperature).	
LO: I can identify the part played by evaporation and condensation in the water cycle.	

Year Five	
Science	
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I can tell you how I control	
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I can take accurate measurements	
using a range of difference	
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