

# Year 6 -Term 6

## Science



# Evolution and inheritance.

Curriculum Key Question: Where are we going?

Topic: How are we all wonders?

### What should I already know?

Which things are living and which are not. - Identifying animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates) and plants which grow into adults.

Animals have offspring which grow into adults.

The basic needs of animals for survival (water, food, air)

Sometimes environments can change and this has an effect on the plants and animals that exist here. Living things breed to produce offspring which grow into adults. This is called reproduction.

### Scientific skills:

Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

Identifying scientific evidence that has been used to support or refute ideas or arguments.

Being able to recognise more abstract ideas and begin to recognise how these ideas help me to understand how the world operates.

### Adaptive Traits

Characteristics that are influenced by the **environment** the living things live in.

These **adaptations** can develop as a result of many things, such as food and climate.



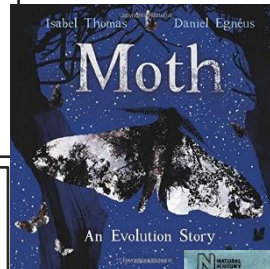
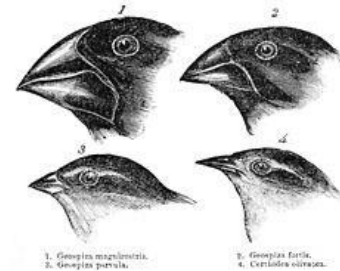
### Inherited Traits

Eye colour is an example of an **inherited trait**, but so are things like hair colour, the shape of your earlobes and whether or not you can smell certain flowers.

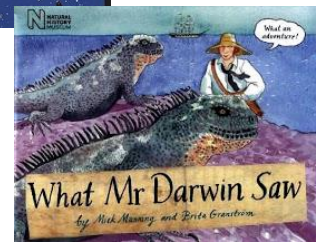
**Evolution** is the gradual process by which different kinds of living organism have developed from earlier forms over millions of years. Scientists have proof that living things are continuously **evolving** - even today!



### Charles Darwin and 'HMS Beagle'



Books we will read:



### Key Vocabulary

<b>Adaptation</b>	The process of changes so that an organism or species can become better suited to their environment.
<b>Breeding</b>	The mating and production of offspring by animals
<b>Environment</b>	The surroundings or conditions in which person, animal, or plant lives.
<b>Evolution</b>	The process by which different kinds of living organism are believed to have developed from earlier forms during the history of the Earth
<b>Inherit</b>	To gain a quality, characteristic genetically from a parent or ancestor.
<b>Fossil</b>	Remains or impression of a prehistoric plant or animal embedded in a rock and preserved.
<b>Characteristics</b>	The qualities or features that belong to them and make them recognisable
<b>Genes</b>	Part of a cell a living thing which controls physical characteristics.
<b>Extinct</b>	No longer has any living members, either in the world or in a particular place.
<b>Palaeontology</b>	The study of fossils as a guide to the history of life on Earth.