

# Evolution & Inheritance – Year 6

## Spring Term I

### What I already know and can do:

*In Science I have:*

- Learned that living things can be grouped in a variety of ways.
- Used classification keys to help group, identify and named a variety of living things in their local and wider environment.
- Understood that environments can change and that this can sometimes pose dangers to living things.
- Described the differences in the life cycles of a mammal, an amphibian, an insect and a bird.

*In Computing I have:*

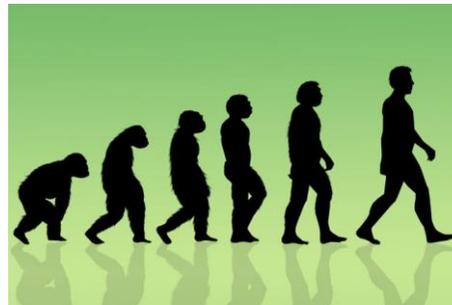
- Combined sequences of instructions and procedures to turn devices on or off.
- Understood and used the terms input and output.
- Explored 'What is' questions by playing adventure or quest games.

### Key Vocabulary I will learn:

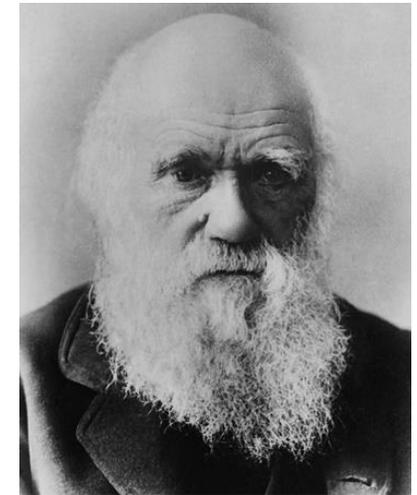
Adaptation	Any change in the structure or behaviour of a species which helps it to become better fitted to survive and reproduce in its environment.
Characteristics	A feature or quality belonging to a specific group or species.
Evolution	Change in the gene pool of a population from generation to generation by such processes as mutation and natural selection.
Extinction	No longer in existence; a species that has ended or died out.
Inheritance	The genetic characters transmitted from parent to offspring.
Natural selection	The process by which living things adapt to specific environmental pressures to improve and survive.
Variation	Differences in characteristics between individuals of the same species.

### My new learning is:

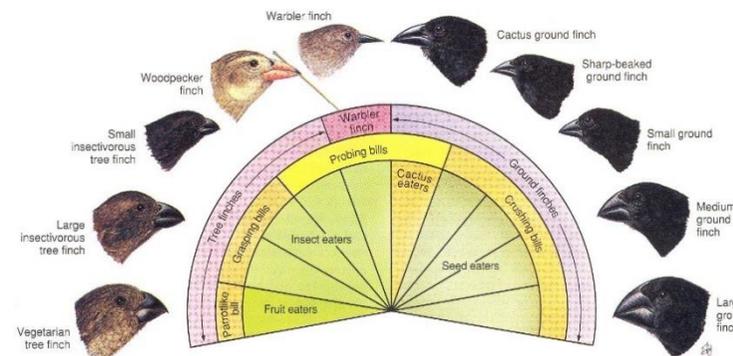
- To describe how living things are classified into broad groups according to common characteristics.
- To give reasons for classifying plants and animals based on specific characteristics.
- To recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
- To understand that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
- To identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
- To design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.



Evolution of man



Charles Darwin



Adaptation in Finches



Ammonite fossil



**Year 6 will be exploring the topic: 'Evolution & Inheritance'. This unit of work will have a specific focus on developing the children's knowledge, skills and understanding in Science.**

### Maths Learning

#### Decimals

- Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.
- Multiply one-digit numbers with up to 2 decimal places by whole numbers.
- Use written division methods in cases where the answer has up to 2 decimal places.
- Solve problems which require answers to be rounded to specified degrees of accuracy.

#### Percentages

- Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.
- Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.

#### Algebra

- Use simple formulae
- Generate and describe linear number sequences.
- Express missing number problems algebraically.
- Find pairs of numbers that satisfy an equation with two unknowns.
- Enumerate possibilities of combinations of two variables.

### English Learning

#### We will be reading:

Film Study Unit

#### Writing focus:

##### Journalistic Writing

- Written and adapted to inform the reader; clear viewpoint is established and maintained.
- Paragraphs should give structure to the whole article.
- Focus on expansion of phrases and clauses; succinct quotations, using appropriate voice.

##### Narrative

- Effective vocabulary selected purposefully; paragraphs securely linked throughout; range of techniques to appeal to and engage the reader.
- Secure development of characterisation, settings and atmosphere and use of dialogue to convey character and advance the action.
- Use informal/formal language appropriately; dialogue punctuated correctly using inverted commas.

### Home Learning

#### **Parents can support in the following ways:**

- Borrow and explore books from the library on the evolution and inheritance.
- Discuss the science behind these processes.
- Teach children about the role safety plays in using social media and other technology.
- Learn about the impact of Charles Darwin and Mary Anning on life today.
- Suggested visits to The Natural History Museum.

