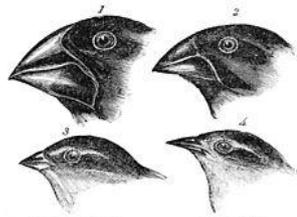
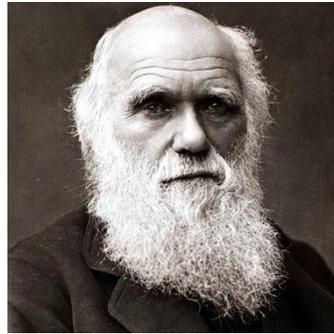


Science

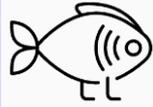
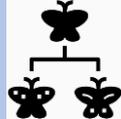
Charles Darwin, an evolutionary scientist, studied different animal and plant species, which allowed him to observe how adaptations could arise. His research into the finches in the Galapagos Islands is some of his most famous work.



Evolution is a change over a long period of time. It occurs when there is competition to survive. Differences (variation) within a species means some are better adapted to their environment– this allows some individuals to survive while others do not.

Different species have gradually evolved through natural selection to produce the wide range of species we have on Earth today, each of which is uniquely adapted to its environment.

Vocabulary

| Word | Definition | Picture |
|----------------------|--|---|
| 1. Adaptation | The process of adjusting or conforming to new conditions. |  |
| 2. Characteristic | A feature or quality belonging typically to a person, place, or thing which identifies them. |  |
| 3. Inheritance | Genetic information (biological trait) that is passed onto offspring. |  |
| 4. Natural selection | The process where organisms adapt to their environment in order to survive. |  |
| 5. Species | A group of living things that have similar genes and that can reproduce. |  |
| 6. Variation | The difference in characteristics between individuals of the same species is called variation. |  |

Multiplying and dividing fractions- Sound tricky?
It isn't really; just follow these tips and you'll be amazed how simple it can be!

Multiplying fractions:

Multiply the top; multiply the bottom and simplifyyyyyyy!

STEP 1 STEP 2 STEP 3

$$\frac{3}{4} \times \frac{2}{5} = \frac{3 \times 2}{4 \times 5} = \frac{6}{20} \xrightarrow{\text{Simplify?}} \frac{3}{10}$$

Dividing fractions:

K- Keep the first fraction.
F- Flip the second fraction.
C- Change the divide to multiplication.

Keep Change Flip

$$\frac{3}{4} \div \frac{2}{7} = \frac{3}{4} \times \frac{7}{2} = \frac{21}{8}$$

The word Diwali means 'rows of lighted lamps'.

Diwali is known as the 'festival of lights' because houses, shops and public places are decorated with small oil lamps called 'diyas'.

Diwali always falls sometime between October and November, but the exact date varies each year as the Hindu calendar is based on the Moon

For many Hindus, art has important connections to worship and devotion. **Rangoli** patterns created from coloured sand, rice or grains often adorn the doorsteps of homes around the time of **Diwali**.

The bright colours of rangolis represent the idea of light and they serve to offer a colourful welcome to Rama and Sita, the deities at the heart of the Diwali celebrations.



Clauses

a group of words that contains a verb, part of a sentence

Main clause

simple sentence that contains subject and verb and makes sense on its own
- I like dogs.

Subordinate clause (or phrase)

simple sentence which does not make sense on its own
- I was born in New York, **which is where my parents live**.

Relative clause

type of subordinate clause that describes noun
- who, which, that
- She lives in Paris, **which (relative pronoun) is the capital of France (relative clause)**.

Conjunctions

Co-ordinating conjunctions

for, and, nor, but, or, yet, so (FANBOYS)
- He likes dogs **and** she likes cats.

Subordinating conjunctions

when, if, that, because
- I do not like dogs **because** they are loud.

Phrases

group of words which doesn't have a verb, subject or both
- The young man

Noun Phrases

starts with noun
- London is the capital

Adjective Phrase

starts with adjective
- happy at his results

Preposition Phrase

starts with preposition
- under the weather

To lead a project in school in order to reduce our carbon footprint.