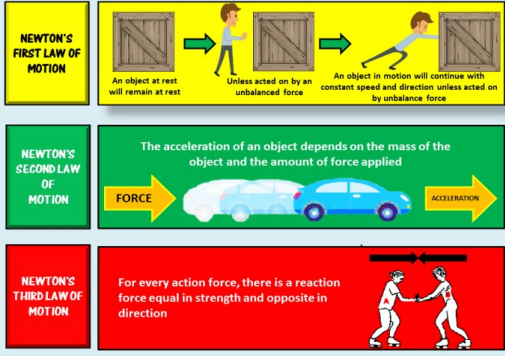
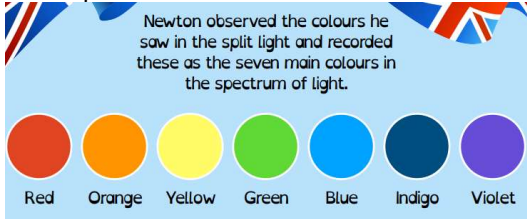
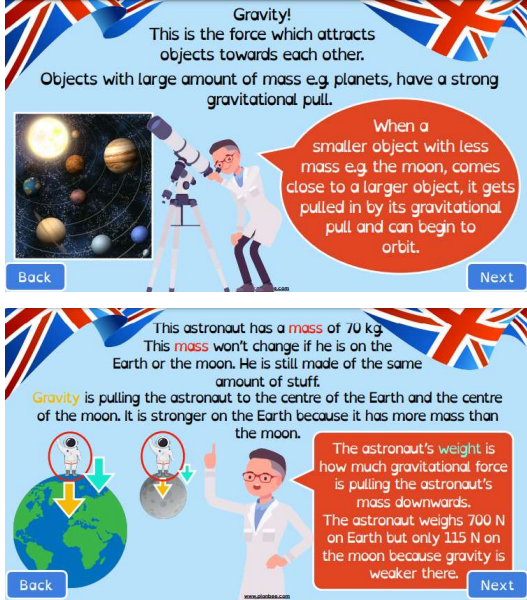
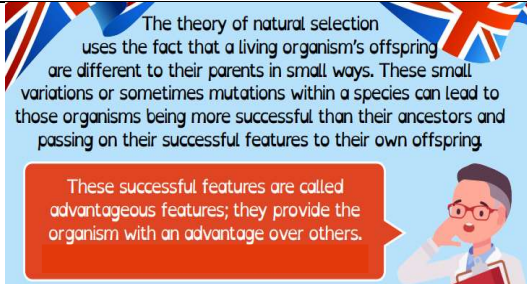


St. Martin's Primary School - Science

Topic: Great British Scientists

Year: 5

Strand: Working Scientifically

| What should I already know? | | Vocabulary | |
|--|--|---|--|
| <ul style="list-style-type: none"> The three main branches of science Be able to talk about the scientific method How to make observations of patterns, similarities and differences and use these to make a conclusion | | advantageous | something that his helpful or useful |
| | | black hole | an area in space with gravity so strong that nothing can escape it |
| | | dependent variable | the thing that is being measured in a scientific experiment |
| What will I know by the end of the unit? | | disadvantageous | something that is unhelpful or can cause harm |
| <p>What are Newton's 3 Laws of Motion?</p>  | evolution | the process of changing and adapting to an environment over time | |
| | force | a source of power or energy | |
| | gears | part of a machine that causes another part to move | |
| | gravity | the force by which all objects in the universe are attracted to each other | |
| | independent variable | a variable that is not changed by other variables being measured | |
| | mass | a measurement of how much matter is in an object | |
| | mechanism | parts of a machine | |
| | natural selection | a natural process of evolution where the strongest of a species survive | |
| Newton's | the unit in which force is measured | | |
| <p>If light is white, where do we get colours from?</p>  | solar system | the Solar System is made up of the Sun and all of the smaller objects that move around it | |
| | trait | a characteristic or quality that makes a person or animal different from others | |
| | variables | an element or feature that can be changed | |
| | weight | how heavy something is | |
| <p>What is gravity and how does it affect mass and weight?</p>  | white light | pure light, such as sunlight | |
| | Great British Scientists | | |
| <p>What is natural selection?</p>  | <p>Sir Isaac Newton – Physicist and Mathematician</p> <p>Stephen Hawking – Physicist and Cosmologist</p> <p>Mary Anning – Palaeontologist</p> <p>Alfred Russel Wallace – Naturalist and Biologist</p> <p>Charles Darwin – Naturalist and Biologist</p> <p>Alexander Fleming – Microbiologist</p> <p>John Kemp Starley – Inventor</p> <p>Rosalind Franklin – Chemist</p> <p>Tim Berners-Lee – Computer Scientist</p> <p>Ada Lovelace – Computing and Mathematician</p> <p>Dorothy Hodgkin – Chemist</p> <p>Maggie Aderin-Pocock – Space Scientist</p> <p>Anne McLaren – Geneticist</p> <p>David Attenborough – Biologist and Natural Historian</p> <p>Alan Turing – Computer Science and Mathematician</p> <p>Brian Cox – Physicist</p> | | |
| | Investigate! | | |
| | <p>Find out about some of the Great British Scientists named above.</p> <ul style="list-style-type: none"> What did they do? What did they discover? How have their discoveries or their work impacted our lives today? | | |

St. Martin's Primary School - Science

Topic: Great British Scientists

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Question 1: What were Newton's 3 laws of motion?

Start of unit:

End of unit:

1.

1.

2.

2.

3.

3.

Question 2: What 7 colours make up white light?

Start of unit:

End of unit:

1.

5.

1.

5.

2.

6.

2.

6.

3.

7.

3.

7.

4.

4.

Question 3: Can you explain the effects of gravity on mass and weight?

Start of unit:

End of unit:

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Question 4: What is natural selection?

Start of unit:

End of unit:

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Question 5: Can you give an example of a disadvantageous trait?

Start of unit:

End of unit:

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