

What Is a Force?



- 10 A push is a force that keeps objects at bay.
- 20 A pull is a force that brings them your way.
- 29 The wind as it blows and bends the trees.
- 40 The pull on the door and the push of a sneeze.

- 45 Sir Isaac Newton wondered why
- 55 an apple fell down and not up to the sky.
- 62 Forces can pull or push or stop.
- 70 Gravity is a force that makes things drop.



- 78 Friction is also a force you should know.
- 86 Two surfaces rubbing can make a car slow.
- 95 Magnetism is a force which can make things collide.
- 102 But magnets can also repel objects aside.



- 112 Planes in the air or your feet on the ground.
- 119 Wherever you look, there are forces around.

Questions



1. Who wanted to know why apples fell downwards?



2. What do you think the word **repel** might mean?



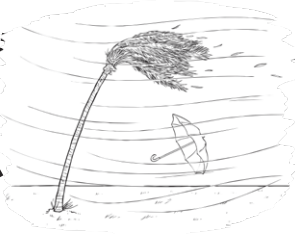
3. What sort of force do you think is shown by the wind in the trees?



4. Number the sentences 1–4 in the order that they appear in the text.

- Wherever you look, there are forces around.
- But magnets can also repel objects aside.
- A pull is a force that brings them your way.
- Forces can pull or push or stop.

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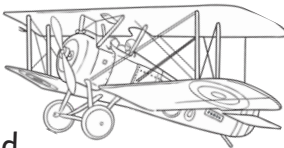


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Answers



1. Who wanted to know why apples fell downwards?

Isaac Newton wanted to know why apples fell downwards.



2. What do you think the word **repel** might mean?

Pupils' own responses, such as: I think that the word 'repel' might mean to push away.



3. What sort of force do you think is shown by the wind in the trees?

Pupils' own responses, such as: I think that the wind in the trees shows a pushing force.



4. Number the sentences 1–4 in the order that they appear in the text.

- 4** Wherever you look, there are forces around.
3 But magnets can also repel objects aside.
1 A pull is a force that brings them your way.
2 Forces can pull or push or stop.