THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 3 · SCIENCE · FORCES AND MAGNETS

Forces and magnets

Everything the questions ask about is taught on the page before them, so nobody has to know the science beforehand.

WHAT IS INSIDE

- Forces that touch and forces that do not
- What magnets pull
- Two poles
- Try it yourself
- How each one is worked

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3 topics · something to do at the end

Written for a parent teaching at home. No training assumed, and nothing else to buy.

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Forces that touch and forces that do not

Read this first. Then answer the questions underneath.



A force is a push or a pull.

Most forces need the two things to be touching. To push a door you must have a hand on it.

A few do not. A magnet pulls a paperclip towards it across a gap, with nothing in between. This is called acting at a distance.

Things also move differently on different surfaces. A toy car runs further on a smooth floor than on a carpet, because the rougher surface pushes back against it more.

1. What is a force?

Four words.

2. What is it called when a magnet pulls something across a gap?

The passage names it.

3. Where does a toy car run further?

Compare the two surfaces.

4. WORK IT OUT Why does a car stop sooner on carpet?

The passage gives the reason.

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Quick check

One right answer each, and every answer is somewhere in this pack. Ring the letter.



1. **What magnets pull Which metals does a magnet mainly attract?**
   (A) Copper (B) Acting at a distance (C) Iron and steel (D) On a smooth floor

2. **Two poles What is it called when two magnets push apart?**
   (A) They repel (B) Copper (C) Iron and steel (D) They pull together

3. **Two poles What happens when north faces south?**
   (A) They pull together (B) They repel (C) Acting at a distance (D) Iron and steel

4. **Forces that touch and forces that do not What is it called when a magnet pulls something across a gap?**
   (A) Acting at a distance (B) Wood, plastic, glass, paper, rubber or water (C) They pull together (D) Poles

5. **What magnets pull Name a metal that is not magnetic.**
   (A) They repel (B) Acting at a distance (C) Copper (D) Poles

6. **What magnets pull Name three things a magnet does not attract.**
   (A) They pull together (B) Copper (C) They repel (D) Wood, plastic, glass, paper, rubber or water

7. **Forces that touch and forces that do not What is a force?**
   (A) They repel (B) A push or a pull (C) Acting at a distance (D) Poles

8. **Forces that touch and forces that do not Where does a toy car run further?**
   (A) Copper (B) Wood, plastic, glass, paper, rubber or water (C) A push or a pull (D) On a smooth floor

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How each one is worked

The answers to the **work it out** questions are model answers. A child who says something different and can show you where on the page it came from has done the work.



FORCES THAT TOUCH AND FORCES THAT DO NOT

1. What is a force?

1. The passage says a force is a push or a pull.
2. So that is the answer.

Answer: **A push or a pull**

2. What is it called when a magnet pulls something across a gap?

1. The passage says this is called acting at a distance.
2. So that is the answer.

Answer: **Acting at a distance**

3. Where does a toy car run further?

1. The passage says a toy car runs further on a smooth floor than on a carpet.
2. So the answer is **on a smooth floor**.

Answer: **On a smooth floor**

4. WORK IT OUT **Why does a car stop sooner on carpet?**

1. The passage says the rougher surface pushes back against it more.
2. More push back takes the movement away sooner.

Answer: **Because the rougher surface pushes back against it more**

WHAT MAGNETS PULL

1. Which metals does a magnet mainly attract?

1. The passage says it attracts mainly iron and steel.
2. So that is the answer.

Answer: **Iron and steel**

2. Name three things a magnet does not attract.

1. The passage says it does not attract wood, plastic, glass, paper, rubber or water.
2. Any three of those is right.

Answer: **Wood, plastic, glass, paper, rubber or water**

3. Name a metal that is not magnetic.

1. The passage says copper, aluminium and gold are not magnetic.
2. Any one of those is right.

Answer: **Copper**

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SAMPLE PAGES

You have read a few pages. The pack is longer.

What you are holding is a short sample, taken from different parts of the pack so that you can see how a week is planned and what a child is actually asked to do, before you decide.

The complete pack, and the rest of the academic materials, are on our website: schemes of work for a parent teaching at home, and practice packs for the skills children get stuck on.

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Members of the homeschool community do not buy these. If you have joined the community, the pack for the term you are working on is given to you at no cost.

Our Islamic Education classes are free. These packs are part of what pays the teachers who teach them.