THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 2 · SCIENCE · USES OF EVERYDAY MATERIALS

Uses of everyday materials

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

WHAT IS INSIDE

- Choosing the right material
- Deciding between two materials
- Changing the shape of a solid
- 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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Deciding between two materials

Read this first. Then answer the questions underneath.



When two materials might both do a job, you test them.

First decide what the job needs. An apron needs to be waterproof. A bag needs to be strong.

Then test both materials for that one thing, treating them exactly the same. Same amount of water, same height, same time.

A test where one material got more water than the other tells you nothing, because you cannot say whether the difference came from the material or from the water.

1. What do you do first?
Before any testing.

2. What does an apron need to be?
One word.

3. How must the two materials be treated?
Two words.

4. WORK IT OUT **Why does a test tell you nothing if one material got more water?**
The last sentence explains it.

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Quick check



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

1. **Changing the shape of a solid What does twisting do?**
   (A) Waterproof (B) Turns one end against the other (C) Decide what the job needs (D) Pulls it longer

2. **Deciding between two materials How must the two materials be treated?**
   (A) Exactly the same (B) Because glass is see-through (C) Waterproof (D) Turns one end against the other

3. **Changing the shape of a solid What does stretching do?**
   (A) Squashing, bending, twisting and stretching (B) Because glass is see-through (C) Turns one end against the other (D) Pulls it longer

4. **Changing the shape of a solid What are the four ways of changing a shape?**
   (A) Because glass is see-through (B) Turns one end against the other (C) Exactly the same (D) Squashing, bending, twisting and stretching

5. **Deciding between two materials What do you do first?**
   (A) Decide what the job needs (B) Waterproof (C) Because glass is see-through (D) Pulls it longer

6. **Choosing the right material Why is a window made of glass?**
   (A) Pulls it longer (B) Because glass is see-through (C) Decide what the job needs (D) Squashing, bending, twisting and stretching

7. **Deciding between two materials What does an apron need to be?**
   (A) Squashing, bending, twisting and stretching (B) Pulls it longer (C) Decide what the job needs (D) Waterproof

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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.



CHOOSING THE RIGHT MATERIAL

1. Why is a window made of glass?

1. The passage says a window is glass because glass is see-through.
2. So that is the answer.

Answer: **Because glass is see-through**

2. Why is a saucepan made of metal?

1. The passage says metal carries heat well and does not melt on a cooker.
2. So that is the answer.

Answer: **Because metal carries heat well and does not melt on a cooker**

3. WORK IT OUT **Why would a paper umbrella be a bad idea?**

1. An umbrella has one job: keeping rain off.
2. Paper goes soft and falls apart when it is wet.
3. So the material does not suit the job.

Answer: **Because paper is not waterproof and an umbrella has to keep rain off**

DECIDING BETWEEN TWO MATERIALS

1. What do you do first?

1. The passage says first decide what the job needs.
2. So that is the answer.

Answer: **Decide what the job needs**

2. What does an apron need to be?

1. The passage says an apron needs to be waterproof.
2. So the answer is **waterproof**.

Answer: **Waterproof**

3. How must the two materials be treated?

1. The passage says treating them exactly the same.
2. So that is the answer.

Answer: **Exactly the same**

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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.