THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 6 · SCIENCE · LIGHT

Light

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

WHAT IS INSIDE

- Light travels in straight lines
- Why you see things
- Shadows have the shape of the object
- 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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Why you see things

Read this first. Then answer the questions underneath.



You see something when light from it enters your eye. There are only two ways that can happen.

The thing gives out its own light. A lamp, a flame and the Sun do this. They are light sources.

Or light from somewhere else lands on it and bounces off into your eye. Almost everything you look at is seen this way: a book, a wall, the Moon.

Nothing comes out of your eyes. Seeing is light arriving, not something being sent.

1. **When do you see something?**
   The first sentence.

2. **Name three light sources.**
   Three are given.

3. **How is almost everything you look at seen?**
   The second way.

4. WORK IT OUT **Why can you not see anything in a completely dark room, even with your eyes wide open?**
   Which direction does light travel for seeing?

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Quick check



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

1. **Light travels in straight lines When do you see the light through the third card?**
   (A) In straight lines (B) When all three holes are in a straight line (C) When light from it enters your eye (D) A lamp, a flame and the Sun

2. **Why you see things Name three light sources.**
   (A) When all three holes are in a straight line (B) When light from it enters your eye (C) A lamp, a flame and the Sun (D) The same shape as the object that

3. **Shadows have the shape of the object What shape does a shadow have?**
   (A) When light from it enters your eye (B) The same shape as the object that casts it (C) When all three holes are in a straight line (D) A lamp, a flame and

4. **Light travels in straight lines How does light appear to travel?**
   (A) When light from it enters your eye (B) A lamp, a flame and the Sun (C) The same shape as the object that casts it (D) In straight lines

5. **Why you see things When do you see something?**
   (A) The same shape as the object that casts it (B) When light from it enters your eye (C) A lamp, a flame and the Sun (D) When all three holes are in a stra

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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.



LIGHT TRAVELS IN STRAIGHT LINES

1. How does light appear to travel?

1. The passage says light appears to travel in straight lines.
2. So that is the answer.

Answer: **In straight lines**

2. When do you see the light through the third card?

1. The passage says you see the light through the third only when all three holes are in a straight line.
2. So that is the answer.

Answer: **When all three holes are in a straight line**

3. WORK IT OUT **Why does moving one card sideways stop the light?**

1. Light travels in straight lines.
2. Moving a card breaks the straight path.
3. Light cannot curve round to find the next hole.

Answer: **Because the holes are no longer in a straight line and light cannot bend round**

WHY YOU SEE THINGS

1. When do you see something?

1. The passage says you see something when light from it enters your eye.
2. So that is the answer.

Answer: **When light from it enters your eye**

2. Name three light sources.

1. The passage says a lamp, a flame and the Sun give out their own light.
2. So that is the answer.

Answer: **A lamp, a flame and the Sun**

3. How is almost everything you look at seen?

1. The passage says light from somewhere else lands on it and bounces off into your eye.
2. So that is the answer.

Answer: **Light from somewhere else lands on it and bounces off into your eye**

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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.