THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 3 · 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

- Seeing, and the dark
- Light bouncing off things
- The sun, and your eyes
- Shadows
- Try it yourself
- How each one is worked

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4 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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Light bouncing off things

Read this first. Then answer the questions underneath.



Most things you look at are not light sources. You see them because light lands on them and bounces off into your eyes. This bouncing is called reflection.

A smooth shiny surface sends light off all the same way, which is why you can see yourself in a mirror. Rough surfaces scatter it in all directions, which is why you cannot see yourself in a brick wall even though it reflects light too.

1. What is the bouncing of light called?

One word.

2. Why can you see yourself in a mirror?

Compare it with the wall.

3. What do rough surfaces do to light?

Look for the word rough.

4. WORK IT OUT A brick wall reflects light. Why can you not see your face in it?

Both surfaces reflect. What is different?

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Quick check

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



1. **The sun, and your eyes What can looking straight at the sun do?**
   (A) Damage your eyes (B) Scatter it in all directions (C) The shadow gets bigger (D) Wood, metal and card

2. **Seeing, and the dark Why is the moon not a light source?**
   (A) The absence of light (B) It gives out no light of its own (C) The shadow gets bigger (D) Opaque

3. **Shadows What is a material that blocks light completely called?**
   (A) Damage your eyes (B) Opaque (C) Reflection (D) It gives out no light of its own

4. **Seeing, and the dark Name three light sources.**
   (A) A lamp, a candle and a torch (B) It gives out no light of its own (C) The shadow gets bigger (D) Reflection

5. **Light bouncing off things What is the bouncing of light called?**
   (A) Reflection (B) Opaque (C) It gives out no light of its own (D) A lamp, a candle and a torch

6. **Shadows What happens if you move the object closer to the light?**
   (A) A lamp, a candle and a torch (B) The absence of light (C) Scatter it in all directions (D) The shadow gets bigger

7. **Seeing, and the dark What is dark?**
   (A) The absence of light (B) The shadow gets bigger (C) Reflection (D) Damage your eyes

8. **Light bouncing off things What do rough surfaces do to light?**
   (A) Scatter it in all directions (B) Damage your eyes (C) The absence of light (D) A lamp, a candle and a torch

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How each one is worked, continued

LIGHT BOUNCING OFF THINGS, CONTINUED



4. WORK IT OUT A brick wall reflects light. Why can you not see your face in it?

1. A mirror reflects light evenly because it is smooth.
2. A brick wall is rough and scatters the light.
3. Scattered light does not form a picture.

Answer: **Because it is rough and scatters the light in all directions**

THE SUN, AND YOUR EYES

1. What can looking straight at the sun do?

1. The passage says looking straight at it can damage your eyes.
2. So that is the answer.

Answer: **Damage your eyes**

2. Name three ways to be outside safely.

1. The passage says wear a hat with a brim, wear sunglasses that block ultraviolet, and stay in the shade when the sun is highest.
2. So that is the answer.

Answer: **Wear a hat with a brim, wear sunglasses that say they block ultraviolet, and stay in the shade when the sun is highest**

3. WORK IT OUT Why is looking at the sun through binoculars especially dangerous?

1. The sun's light is already far stronger than any lamp.
2. Binoculars collect light from a wide opening and concentrate it.
3. That makes an already dangerous thing far worse, which is why the passage singles it out.

Answer: **Because binoculars gather more light and make it even stronger**

SHADOWS

1. What is a material that blocks light completely called?

1. The passage says a material that blocks light completely is called opaque.
2. So the answer is **opaque**.

Answer: **Opaque**

2. Name three opaque things.

1. The passage says wood, metal and card are opaque.
2. So that is the answer.

Answer: **Wood, metal and card**

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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.