THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 5 · SCIENCE · EARTH AND SPACE

Earth and space

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

WHAT IS INSIDE

- The solar system
- The Moon
- Day and night
- 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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The Moon

Read this first. Then answer the questions underneath.



The Moon orbits the Earth, not the Sun. One circuit takes 27.3 days, but the cycle of its shapes, from one full Moon to the next, takes 29.5 days.

The two numbers differ because the Earth does not stand still. While the Moon goes round us, we move along our own orbit of the Sun, so the Moon needs a little longer to come back to the same shape.

The Moon gives out no light of its own. We see it because sunlight falls on it and reflects to us.

The Moon is much smaller than the Earth, and the Earth is much smaller than the Sun. The Sun only looks small because it is so far away.

1. What does the Moon orbit?

Not the Sun.

2. The passage gives two numbers of days. Give both, and say what each one measures.

One is a circuit, the other is from one full Moon to the next.

3. Why can we see the Moon?

It makes no light itself.

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Quick check



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

1. **The Moon** What does the Moon orbit?
   (A) Eight (B) Orbit (C) From west to east (D) The Earth

2. **The solar system** What does spherical mean?
   (A) From west to east (B) The half facing the Sun (C) Ball-shaped (D) Sunlight falls on it and reflects to us

3. **The solar system** What is it called when a planet goes round the Sun?
   (A) Ball-shaped (B) About 365 days (C) Orbit (D) Eight

4. **The solar system** How many planets travel round the Sun?
   (A) About 365 days (B) Eight (C) The Earth (D) The half facing the Sun

5. **The solar system** How long does the Earth take to go round once?
   (A) Ball-shaped (B) About 365 days (C) The half facing the Sun (D) 24 hours

6. **Day and night** Which half of the Earth has daylight?
   (A) From west to east (B) Eight (C) The half facing the Sun (D) Ball-shaped

7. **Day and night** How long does one whole spin take?
   (A) 24 hours (B) The half facing the Sun (C) Sunlight falls on it and reflects to us (D) About 365 days

8. **The Moon** Why can we see the Moon?
   (A) Sunlight falls on it and reflects to us (B) Eight (C) About 365 days (D) Orbit

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How each one is worked, continued

THE MOON, CONTINUED



2. The passage gives two numbers of days. Give both, and say what each one measures.

1. One circuit of the Earth takes 27.3 days.
2. The cycle of shapes takes 29.5 days.
3. They differ because the Earth moves along its own orbit while the Moon goes round.

Answer: **27.3 days to go round once, 29.5 days for the cycle of shapes**

3. Why can we see the Moon?

1. The passage says we see it because sunlight falls on it and reflects to us.
2. So that is the answer.

Answer: **Sunlight falls on it and reflects to us**

4. WORK IT OUT **Why does the Sun look small in the sky when it is far bigger than the Earth?**

1. The passage says the Sun only looks small because it is so far away.
2. Distance makes large things look small.

Answer: **Because it is so far away**

DAY AND NIGHT

1. How long does one whole spin take?

1. The passage says one whole spin takes 24 hours.
2. So the answer is **24 hours**.

Answer: **24 hours**

2. Which half of the Earth has daylight?

1. The passage says the half facing the Sun has daylight.
2. So that is the answer.

Answer: **The half facing the Sun**

3. Which way does the Earth turn?

1. The passage says the Earth turns from west to east.
2. So that is the answer.

Answer: **From west to east**

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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.