CurriculumVisions Lesson

Students: fill in next to the word answer and return the document for assessment.

Science

Book: Earth and beyond (5E)

Pages 10-17

Everything here is based on our Curriculum Visions book Earth and beyond (5E)

In this segment, we are going to learn more about the sun and the moon.

Turn to pages 10-11 of the book. Where does the Moon's light come from?

Answer.....
It is sunlight bouncing off the surface.

Why does the Moon look different at different times of the month?

Answer.....
As the moon moves around the earth, it changes its position in the sky. So, we can see different amounts of light bouncing off the moon. This is what makes the phases of the moon.

Go to pages 12-13. Design a demonstration to show why the moon appears to be the same size in the sky as the sun.

Answers will vary.....
Direct students to the picture on page 13. Students should have the idea of holding an object at different distances from their eyes.

Go to pages 14-15. How can you tell direction using shadows? How can you tell the time using shadows?

Answers.....
The direction of the shadow will be opposite to the where the sun is in the sky. So, if the sun is in the east, the shadow

will lie to the west.
Shadows get longer as the sun moves lower in the sky. In the morning and evening, the sun is low in the sky, so shadows are long. Close to midday, the sun is directly overhead and so shadows are very short.

Go to pages 16-17. Why doesn't the earth move closer or farther away from the sun as it orbits?

Answer.....
The sun is very large, so it is constantly pulling the earth towards it (gravity). At the same time, the other planets are pulling the earth away – so it all balances out.

If you are interested in this topic continue to browse the book and watch our amazing videos. They start right on the book cover.