

CurriculumVisions Lesson

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

Science

Book: Food and a healthy diet (3A)

Pages 12-19

Everything here is based on our Curriculum Visions book Light and shadows (3F).

Part 2

In this segment, we are going to think about how shadows are made.

You will need to go to pages 12-13 of the book.

In your own words, describe the difference between a shadow and a silhouette?

Answers.....

Shadow: a place where the light has been blocked; a dark shape on the ground; a dark shape cast by an object

Silhouette: the outline of an object seen when you are standing in its shadow; the dark shape of an object against the bright sky.

Go to pages 14-15. How can you make a shadow grow bigger? How can you make a shadow grow smaller?

Answers.....

Bigger: Move the object closer to the light (or the light closer to the object)

Smaller: Move the object away from the light (or the light away from the object)

Go to pages 16-17

Find a room with an overhead light source (ceiling light).
Stand directly underneath the light and notice your shadow.
Now stand at different distances away from the light. Describe
how your shadow changes as you move away from the light.

Answers should include some of.....

The shadow always faces away from the light.

The shadow changes direction as you move around the room.

The shadow starts at your feet.

The farther away from the light you go, the longer your shadow
gets.

Go to pages 18-19

Use what you have learned about shadows to design a sundial.
If your teacher agrees, you can build your sundial.

Answers will vary.....

Students may want to research different sundial designs, or
you could prepare them with different designs.

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