

Activity 9B Day and Night



Skill: Explain relationships or scale through models

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Materials:

Globe Sticker Torch

- 1 Work in pairs.
- 2 Place a globe on a table. Paste a sticker on the globe.
- 3 Switch off the lights in the classroom.
- 4 Hold a torch some distance away from the globe. The globe represents Earth. The torch represents the Sun.
- 5 Shine the light on the globe where the sticker is.
- 6 Is the side of the globe with the sticker bright or dark? Is this part of 'Earth' experiencing day or night?



brighter and it is experiencing day

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- 7 Ask your partner to turn the globe slowly. Do this until the sticker is facing away from the torch.
- 8 Is the side with the sticker bright or dark now? Is this part of 'Earth' experiencing day or night?

It is dark now because it is facing away from the light source.

It is experiencing night .

Word Whizz

Complete the crossword puzzle using the given clues.

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Across

- 2 Earth is one of the planets in the Solar System.
- 4 Comets form long tails when they get closer to the Sun.
- 6 Asteroids are made mostly of rock.

Down

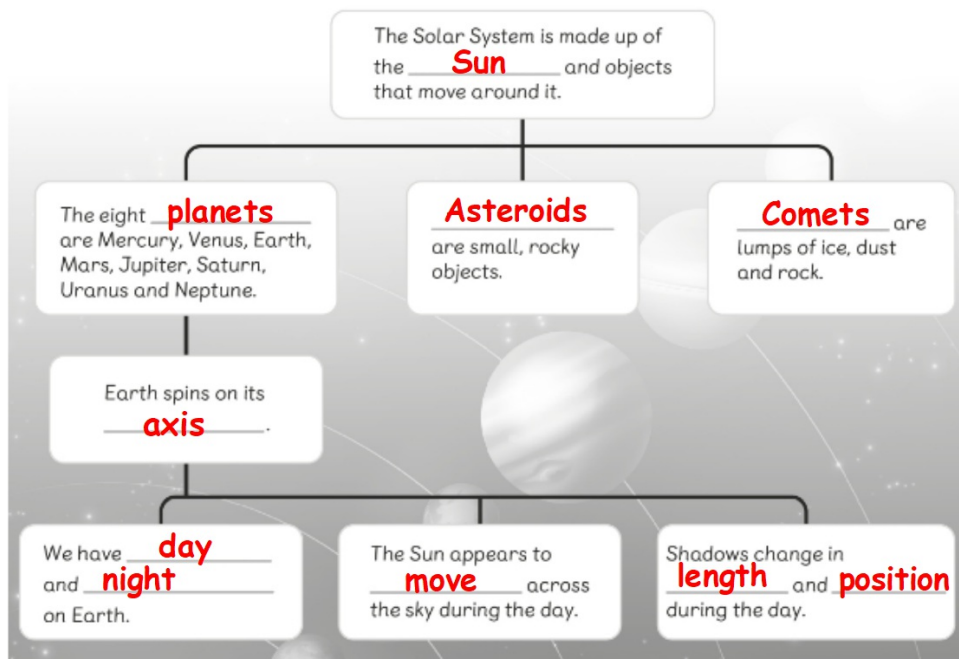
- 1 There may be stars, planets, asteroids and comets in planetary systems.
- 3 In the Solar System, all the planets move around the Sun.
- 5 Earth spins on its axis, causing day and night.

Let's Map It!

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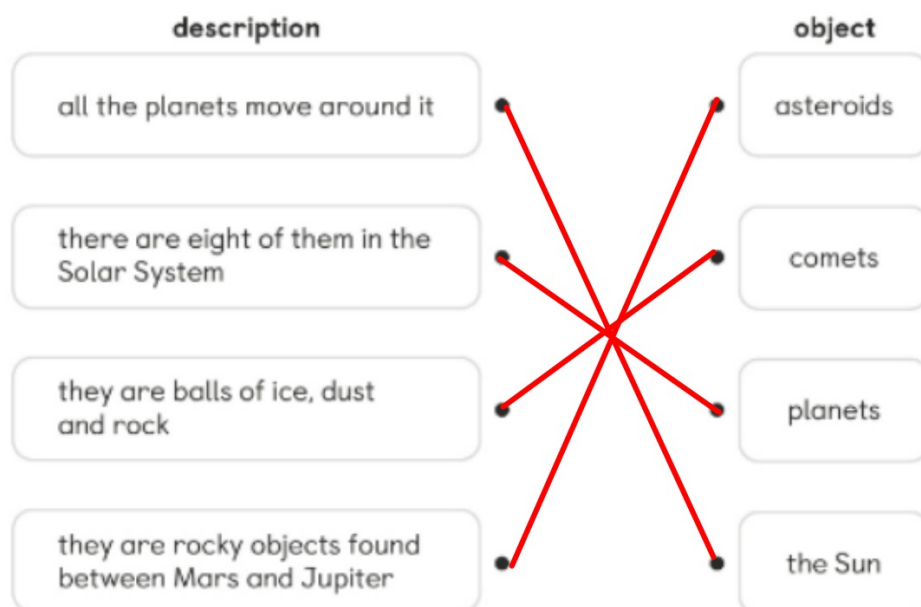
Fill in the blanks. Use the following words.

asteroids axis comets day length
move night planets position Sun



Let's Review

- I Draw a line to match the description to the correct object in the Solar System.



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- 2 The diagram shows a type of movement of Earth.



What is caused by this movement of Earth?
Tick (✓) the **two** correct answers.

Objects form shadows.

☐

Our shadow under the Sun is the shortest at noon.

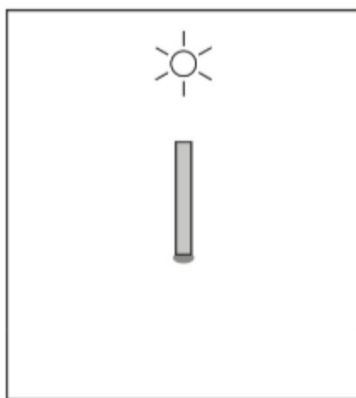
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Some parts of Earth have day.

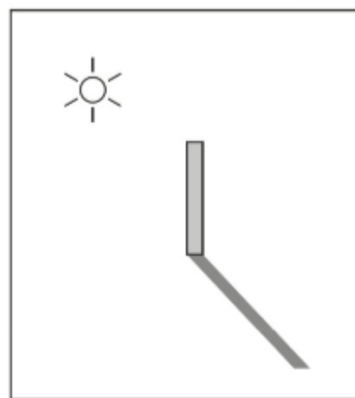
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- 3 Ahmed observes the shadow of a pole under the Sun at different times of the day.

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12 noon



3 o'clock in the afternoon

- a Why does the shadow change in position? Circle the correct answer.

the pole is moving to a different position each time

the Sun is moving all the time

the Sun is shining from a different direction each time

- b Why does the Sun seem to move across the sky during the day?

The Sun seems to move across the sky during the day because Earth is spinning on its axis.