

## Activity 9B Day and Night

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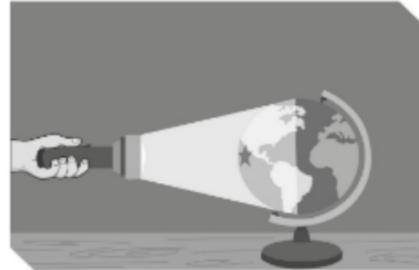


**Skill:** Explain relationships or scale through models

**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?

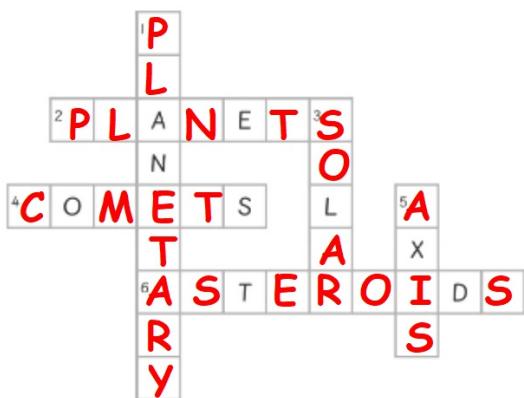
**It is dark now because it is facing away from the light source.**

**It is experiencing night .**

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## Word Whizz

Complete the crossword puzzle using the given clues.



### 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.

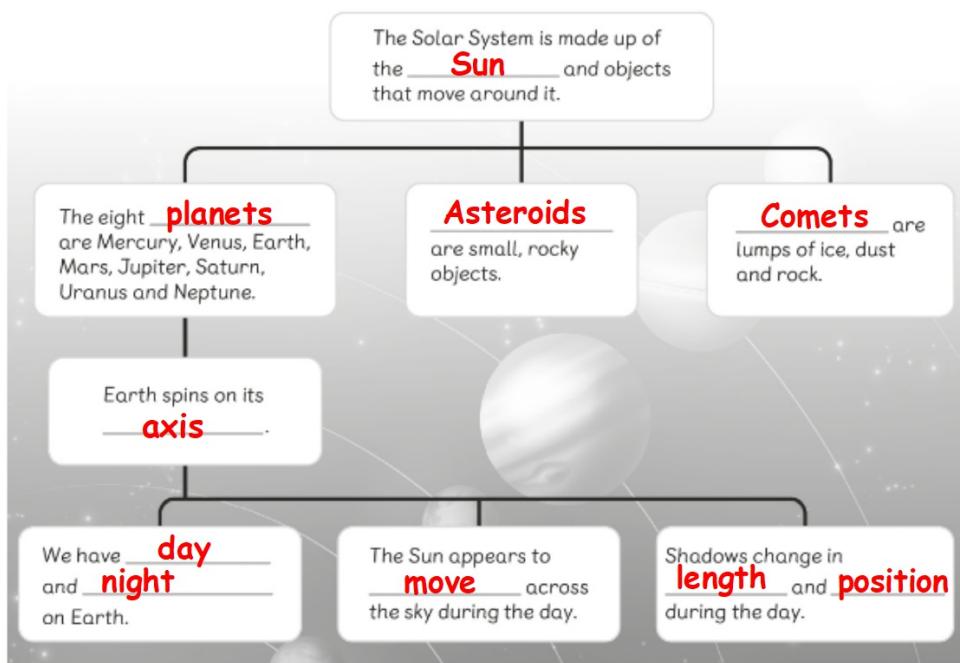
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## Let's Map It!

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Fill in the blanks. Use the following words.

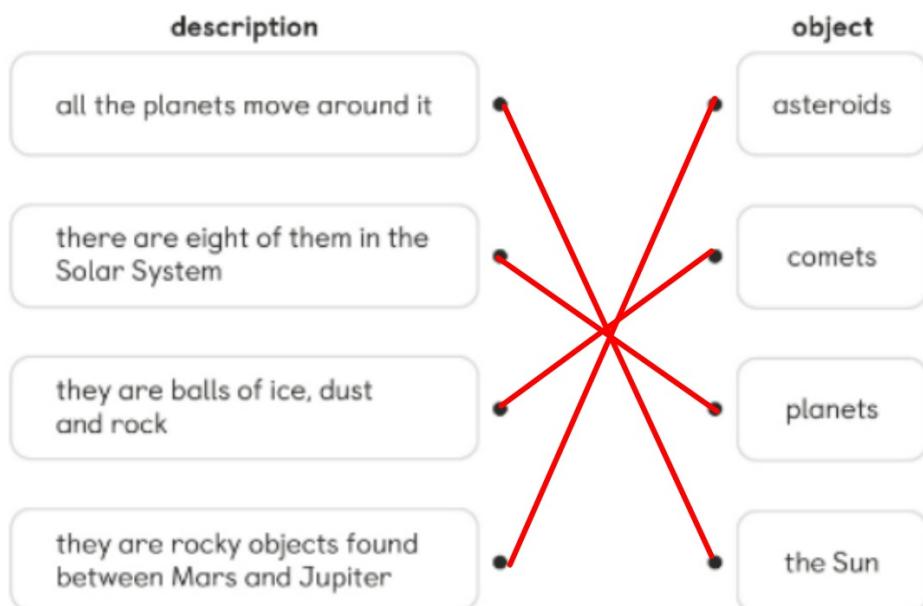
asteroids      axis      comets      day      length  
move      night      planets      position      Sun



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### 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.

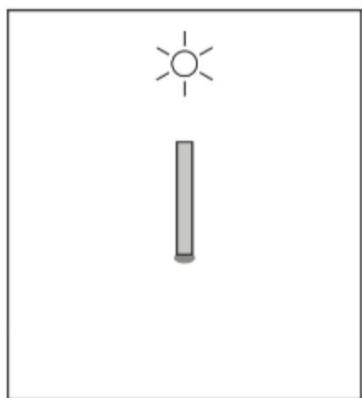
Objects form shadows.

Our shadow under the Sun is the shortest at noon.

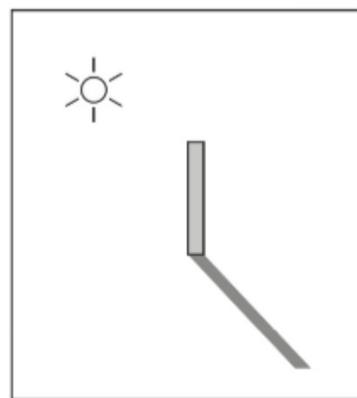
Some parts of Earth have day.

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.**