SCIENCE

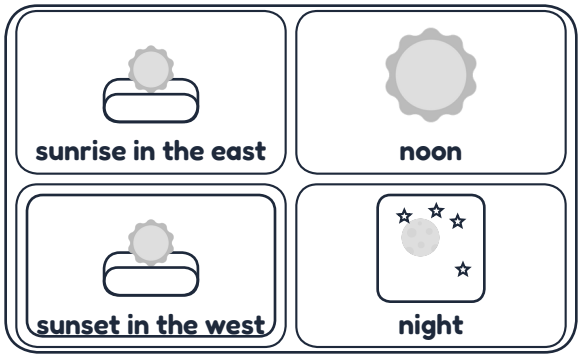
Day and night

Name _____ Date _____

I can explain why we have day and night.

1 How it works

Earth is always spinning, like a top. It turns all the way around once every day. When our side of Earth faces the sun, it is day. When our side turns away from the sun, it is night. The sun does not really move across the sky; it only looks that way because Earth turns. The sun seems to rise in the east and set in the west.



2 Day or night? Circle one.

When do you see or do it?

stars day night



sun day night



beach day night



school bus day night



rooster day night



bedtime day night

moon day night



owl day night

How did I do? ☆ ☆ ☆

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Earth spins

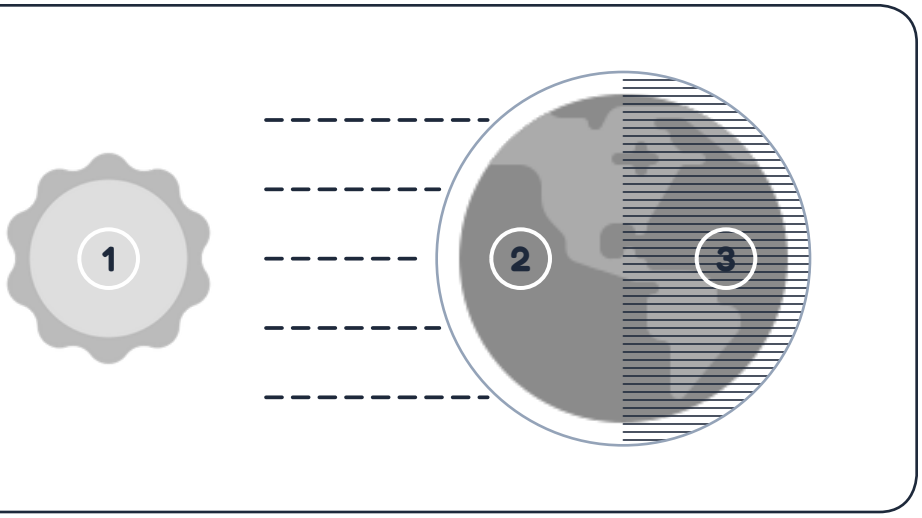
Name _____ Date _____

I can label day and night on a spinning Earth.

1 Label the picture

Use the words in the box.

sun **day side** **night side**



1 _____

2 _____

3 _____

2 Fill in the blanks

Use the words in the box.

nighttime **daytime** **spins** **east**

1. Earth _____ like a top.
2. The side facing the sun has _____.
3. The side facing away has _____.
4. The sun seems to rise in the _____.

How did I do? ☆ ☆ ☆

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Think like a scientist

Name _____ Date _____

I can explain day and night with a spinning Earth.

1 Think about it

1. Why do we have day and night? _____
2. Why does the sun seem to move? _____
3. Where does the sun rise? _____
4. What do you do at night? _____

2 True or false? Circle it.

1. The sun goes around Earth every day.	true	false
2. Earth spins around once every day.	true	false
3. The sun rises in the west.	true	false
4. It is night on the side facing away from the sun.	true	false
5. When it is day here, it is night on the other side of Earth.	true	false

3 Draw your street in the day and at night.

How did I do? ☆ ☆ ☆

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Try it: flashlight Earth

Name _____ Date _____

I can show how a spinning Earth makes day and night.

1 You need

- a flashlight
- a ball or an orange
- a small sticker
- a dark room
- a partner

2 What to do

1. Put a small sticker on the ball. This is your home on Earth.
2. In a dark room, a partner shines the flashlight on the ball. The flashlight is the sun.
3. Turn the ball slowly. Is the sticker in the light or in the dark?
4. Turn it all the way around once. That is one whole day.

3 I predict

What happens to the sticker as the ball turns?

_____

_____

4 What I see

Ball turned	Light or dark?	Day or night?
start		
half turn		
full turn		

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: day and night

1 Page 1

Answers: 1) stars: night; 2) sun: day; 3) beach: day; 4) school bus: day; 5) rooster: day; 6) bedtime: night; 7) moon: night; 8) owl: night.

2 Page 2

Labels: 1) sun; 2) day side; 3) night side.

Blanks: 1) spins; 2) daytime; 3) nighttime; 4) east.

3 Page 3

Think: 1) Earth spins, so our side faces the sun, then turns away; 2) Earth is turning; 3) In the east; 4) Answers will vary.

True or false: 1) false; 2) true; 3) false; 4) true; 5) true.

Drawing: a daytime picture with the sun and a nighttime picture with the moon and stars.

4 Page 4: Try it!

When the sticker faces the flashlight, it is in the light: daytime. After half a turn, it faces away and is in the dark: nighttime. After a full turn, it is back in the light. This is how Earth spins once every day to give us day and night.

5 Teaching tip

Let one child hold a lamp as the sun while another slowly turns in place as Earth. Everyone sees one side face the light, then the dark. Then say it together: Earth spins once a day.

Safety: never shine the flashlight into anyone's eyes, and never look straight at the real sun.

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