SCIENCE

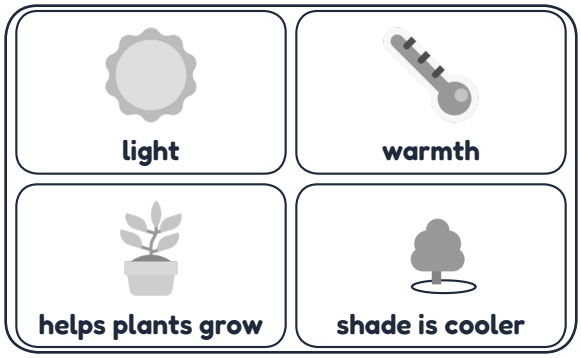
The sun

Name _____ Date _____

I can tell how the sun gives us light and warmth.

1 How it works

The sun is a star, the closest star to Earth. It is a giant ball of hot, glowing gas. The sun gives Earth light and warmth. Plants need sunlight to grow, and people and animals need plants for food. Sunlight warms the land, the water and the air. Shade is cooler, because something blocks the sunlight.



2 Which is warmer? Circle it.

1. a rock in the sun / a rock in the shade
2. a puddle in the shade / a puddle in the sun
3. a dark shirt in the sun / a white shirt in the sun
4. a slide at night / a slide at noon

Sunlight warms the land, the water and the air. Dark things soak up more sunlight than light things, so they get warmer.

How did I do? ☆ ☆ ☆

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Safe in the sun

Name _____ Date _____

I can stay safe in the sunshine.

1 How does it keep you safe? Draw a line.

sunscreen	○	○	shades your face
sunglasses	○	○	keeps your body from drying out
a hat	○	○	keeps you cooler
shade from a tree	○	○	protects your skin
water to drink	○	○	protects your eyes

2 Does it need the sun? Circle one.



A plant growing in a garden yes no



Wet clothes drying outside yes no



Sleeping at night yes no



A flashlight in a dark room yes no

How did I do? ☆ ☆ ☆

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Think like a scientist

Name _____ Date _____

I can explain how sunlight warms Earth.

1 Think about it

1. Why is a slide hot on a sunny day? _____
2. Why is shade cooler? _____
3. How does the sun help us get food? _____
4. How can you stay safe in the sun? _____

2 True or false? Circle it.

1. Plants grow without any light.	true	false
2. It is safe to look straight at the sun.	true	false
3. The sun gives Earth light and warmth.	true	false
4. The sun is a star.	true	false
5. Shade is cooler than sunshine.	true	false

3 Design a shade to keep a playground cool. Label it.

How did I do? ☆ ☆ ☆

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Try it: sun or shade?

Name _____ Date _____

I can test how sunlight warms water.

1 You need

- 2 cups of cold water
- a thermometer, or your finger
- a sunny spot
- a shady spot
- a clock

2 What to do

1. Fill both cups with the same cold water.
2. Put one cup in the sun and one in the shade.
3. Wait one hour.
4. Feel the water or measure it with the thermometer. Which cup is warmer?

3 I predict

Which cup will be warmer?

_____

_____

4 What I see

Cup	Warm or cool?	Temperature
sun		
shade		

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: the sun

1 Page 1

Warmer: 1) a rock in the sun; 2) a puddle in the sun; 3) a dark shirt in the sun; 4) a slide at noon.

2 Page 2

Sun safety: 1) sunscreen: protects your skin; 2) sunglasses: protects your eyes; 3) a hat: shades your face; 4) shade from a tree: keeps you cooler; 5) water to drink: keeps your body from drying out.

Needs the sun: 1) yes; 2) yes; 3) no; 4) no.

3 Page 3

Think: 1) Sunlight warmed it; 2) Something blocks the sunlight; 3) Plants need sunlight to grow; 4) Sunscreen, a hat, shade and water.

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

Drawing: answers will vary. Look for something that blocks sunlight, like a roof, a big umbrella or trees.

4 Page 4: Try it!

The water in the sun gets warmer than the water in the shade, because sunlight warms the water. The shade blocks the sunlight, so that water stays cooler. This is why we look for shade on hot days, and why people build roofs and umbrellas.

5 Teaching tip

On a sunny day, let children carefully touch a dark mat, a light mat, a sunny wall and a shady wall. Ask which is warmest and why, then try the water test on page 4.

Safety: never look straight at the sun. Wear a hat and sunscreen when you work outside.

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