

Science
Studies Weekly
Footprints

EARTH-SPACE SCIENCE / WEEK 1
S0-E

GRADE
K

*Time For
Science*

**Science is fun. We like to
observe and learn.**

See Primary-Source
Related Media...



www.s-w.co/S0E-1



Time For Science



I can investigate.



We can investigate together.



You can investigate.

We can learn a lot!



Look & Learn

Watch the Birdie!
Your teacher will hang a bird feeder outside the window.
Watch the birds every day. What do they do?
Talk to your friends about the birds.

Look at this picture.

What do you see?

What happens when they get hot?

What sound do they make?



Circle the sound popcorn makes.

boom

pop

Practice writing the word.

pop

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The World of Science



Science teaches us about our world.
Tools help us learn about our world.

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www.s-w.co/S0E-2

The World of Science

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Look & Learn



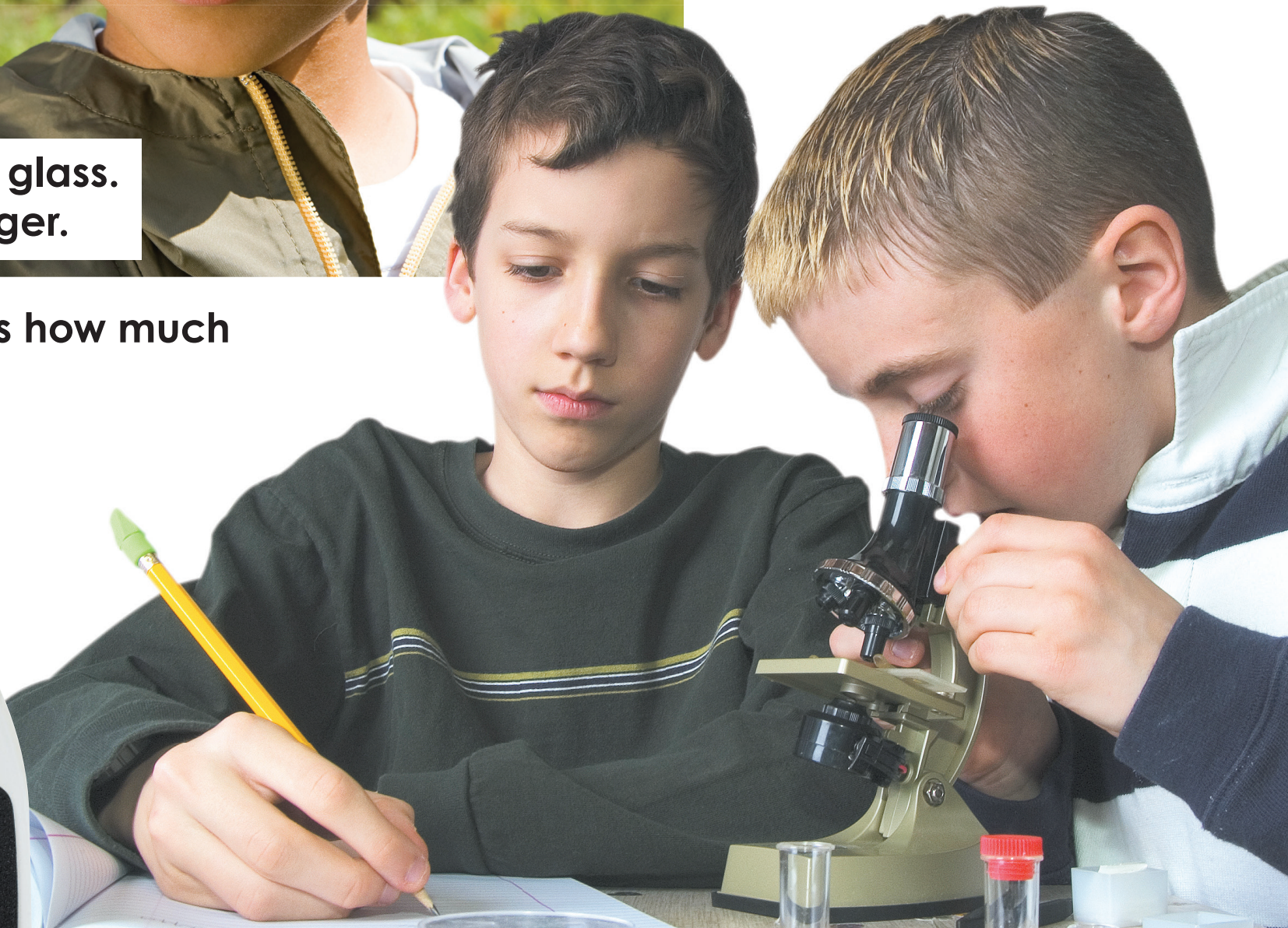
This tool is a magnifying glass.
It makes things look bigger.

This tool is a scale. It tells how much
something weighs.



Page 2

When we do science,
we talk to each other
about what we see
and do. Talking to
each other helps us
learn more.



Look at this
picture.

What animal do you
see? What color is
it? What color is the
snow? Talk to your
friends about why this
animal is the same
color as the snow.

Page 3

Look at this picture.

**Talk to a friend about the leaf.
Talk about color, size and
shape.**

**Look at the picture with
a magnifying glass.
How does the leaf
look different?**

**Go outside and look
at a real leaf. Use
the magnifying
glass.**



Draw a picture of a leaf.

**Draw a picture of a leaf
under a magnifying glass.**



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Listen
Think
Protect

Science Safety

See Primary-Source
Related Media...



www.s-w.co/S0E-3

We can stay safe in
science. Follow the rules
and use the right tools.

Science Safety

Listen

Listen to your teacher. Do what your teacher says.



Think

Be careful. Work slowly. Think about what you are doing.

Protect

Use tools that keep you safe. Goggles keep your eyes safe.



Gloves keep your hands safe.

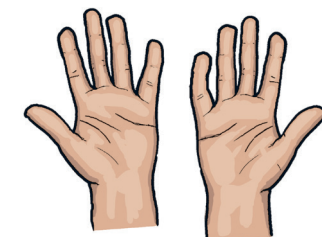
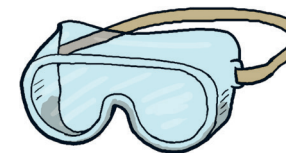
An apron keeps your clothes clean and safe.



Protect means to keep something safe.

Look & Learn

What does each tool on the left keep safe? Draw a line from the tool to the thing it keeps safe.



Gloves Protect Our Hands

What You Need:

1 glove



2 ice cubes



What to Do

1. Put on the glove.
2. Pick up an ice cube in each hand.
3. Which hand feels cold first? Circle your answer.

**the hand with
the glove**

**the hand without
the glove**
4. When your hand feels cold, put down the ice cubes.
The glove helps keep your hand from getting cold.

Draw a picture of you being safe in science.



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Earth



Many living things call Earth home.
Some live in the water. Some live on
the land.

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Related Media...



www.s-w.co/S0E-4

Earth

Look & Learn

Most of Earth is covered with water. Plants and animals need water to live.



Some of Earth is land. The land is made of rocks and soil.



Rocks can be very small.

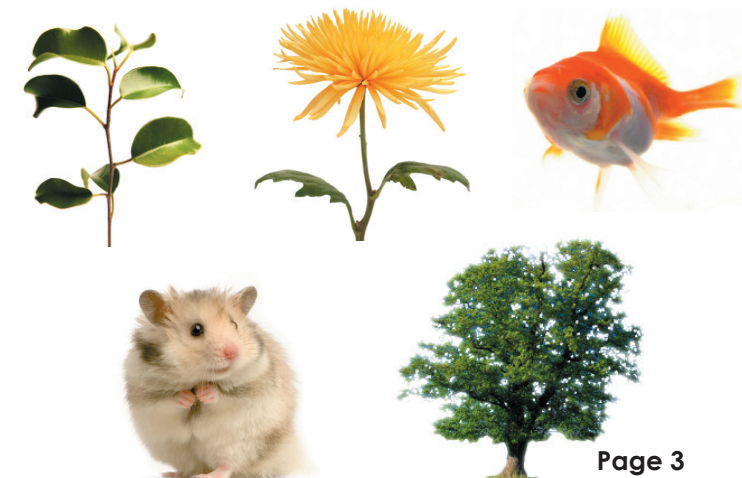


Rocks can be very big.

**Rocks can be
any size.**



Plants grow in soil. Circle the things that grow in soil. Put an X on things that do not grow in soil.



Sorting Rocks

What You Need:

1. Three shoeboxes, each with a hole cut in the lid. Mark the boxes "small," "medium" and "large" and cut the holes accordingly. Small should be for pebbles, large for rocks about the size of a your fist, medium in between those two.
2. Lots of rocks of different sizes.



What to Do

1. Choose a rock.
2. Guess which hole the rock will fit.
3. Try to put the rock through that hole.
4. If it doesn't fit, make another guess and try again.
5. Keep sorting until all the rocks are in a box.
6. Count how many rocks are in each box. Write your answers here.

small _____ medium _____ large _____

Try another sorting activity. How can you sort these shapes?



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Water

Everyone needs water. Where does our water come from?

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Related Media...

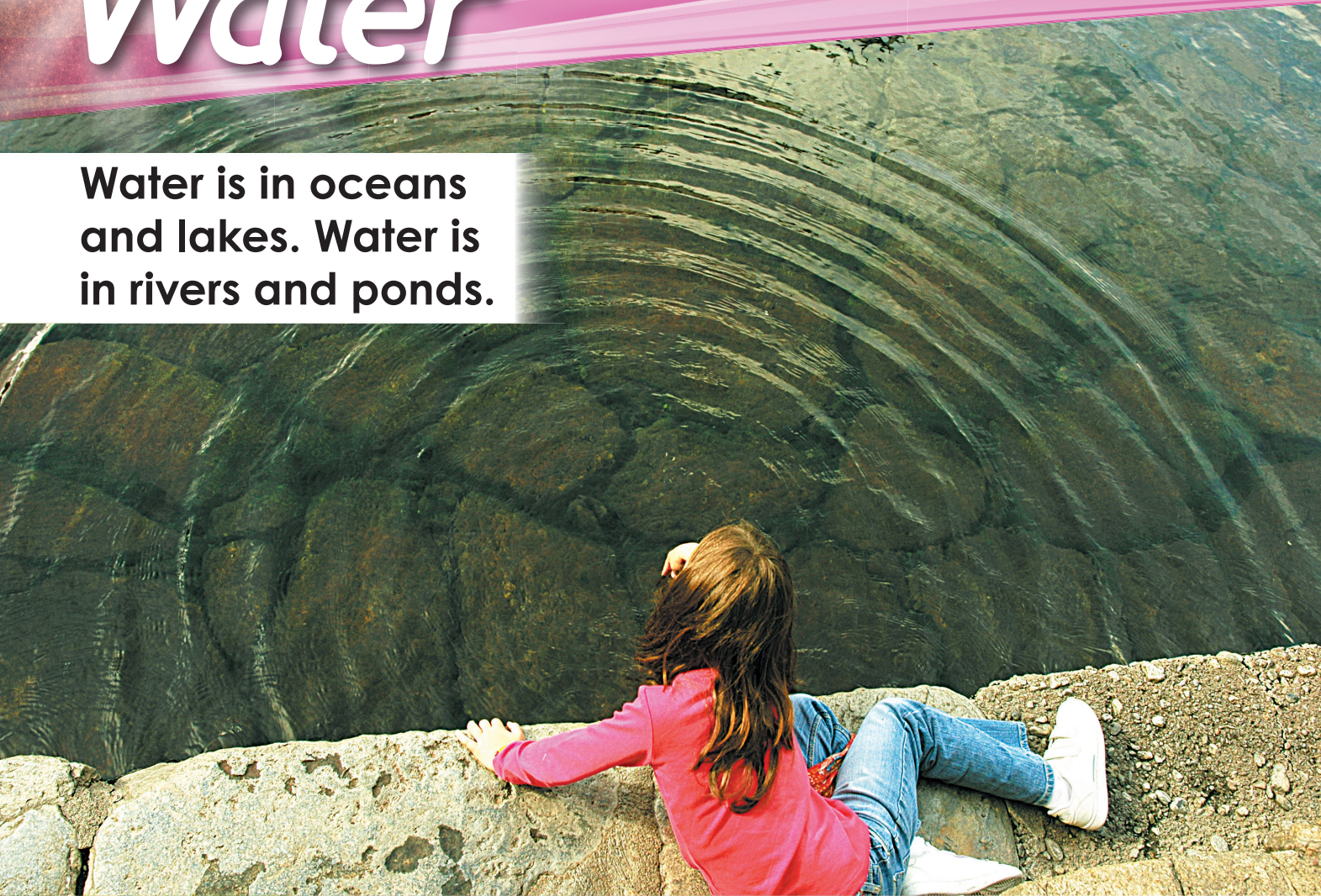


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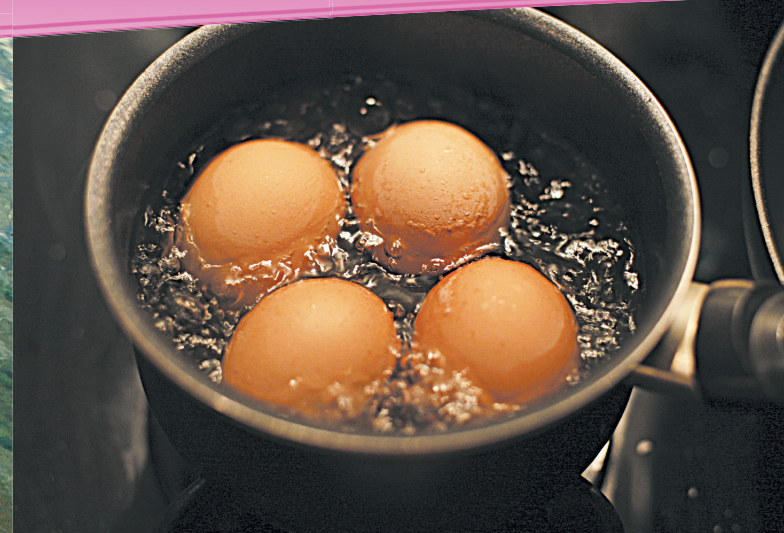


Water

Water is in oceans and lakes. Water is in rivers and ponds.



Rain is water.
Rain helps
plants grow.



People use water to
cook. People use water
to clean.



People and animals
drink water to survive.

Look & Learn

Use your senses. How
does water look, feel,
smell, taste and sound?



Talk to your friends
about water.

Water is in every part of you. Water is even in your breath.

What to Do

1. Hold a small mirror.
2. Breathe on the mirror for a couple of seconds.
3. What happens to the mirror?



Your breath is warm. The water in your warm breath makes fog on the mirror.

Draw a picture of one way you use water.



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Weather

Is the weather the same every day? No. The weather changes.

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Related Media...



www.s-w.co/S0E-6



Weather

It can be hot.
It can be cold.
It can rain.
It can snow.



It can be sunny.

It can be cloudy.



There are four seasons.
Each season has
different weather. What
season is it now?

Look & Learn

Watch the Weather



Look out the window.
What do you see?
Circle what you see.



Talk to your friends
about the weather.

Name _____

A tornado is a big storm. Your class will practice what to do in a tornado.



Your teacher will take you to a safe place. Kneel on the floor and put your hands over your head. Listen to your teacher.

Record the weather for each day. Draw a picture of the type of weather below the days.

1

Monday

2

Tuesday

3

Wednesday

4

Thursday

5

Friday

EARTH-SPACE SCIENCE / WEEK 7

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Day and Night

We see the sun during the day.
We see the moon and stars at night.

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www.s-w.co/S0E-7



Day and Night



The sun is a star. It is the only star we can see during the day. The sun gives us light.



At night we see other stars. We can see thousands of stars on a clear night.

Look & Learn

Look at the picture of the moon. Do you see circles on the moon? The circles are craters.



This is a full moon.



This is a crescent moon.

The moon does not always look the same. The way the moon looks has a pattern.



Talk to your friends about what you see.

Day and Night

WHAT YOU NEED

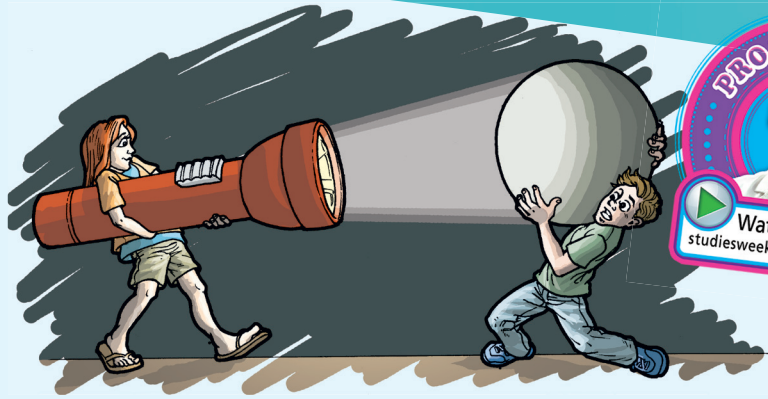
- a flashlight
- a globe
- a friend

WHAT TO DO

1. Turn on the flashlight.
2. Shine the light on the globe.
3. Look at the globe. Talk about where the light is shining.
Talk about where the light is not shining.
4. Turn the globe slowly.
5. Talk about what happens.

The flashlight is like the sun. The sun does not shine on all the Earth at the same time. It is day where the sun is shining. It is night where the sun is not shining.

Draw a picture of the night sky.



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EARTH-SPACE SCIENCE / WEEK 8

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The Sun

The sun is the closest star to Earth.
We can only see the sun during the day.

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Related Media...



www.s-w.co/S0E-8



The Sun

Look & Learn



The sun rises in the morning. The sky gets brighter as the sun rises.



The sun gives us light. The sun gives us heat.



The sun sets in the evening. The sky gets darker as the sun sets.



The sun is important for all life on Earth. It can be harmful too. Why is this boy wearing a hat?



Look at this picture. Where is the light coming from?

The light is coming from the sun. The sun helps plants grow.

Let's Make a Hat!

WHAT YOU NEED

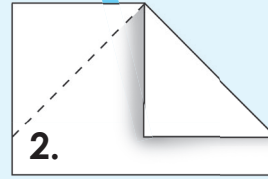
- one folded sheet of newspaper (double page)
- markers, glitter glue or other items to decorate your hat

WHAT TO DO

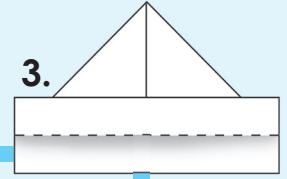
1. Turn the paper so the fold is at the top.
2. Fold the top corners down so they meet in the middle.
3. At the bottom, fold one layer of the paper up. Make a straight fold all the way across.
4. Turn the hat over and do Step 3 again.
5. Decorate your hat.
6. Open the hat from the bottom and try it on.



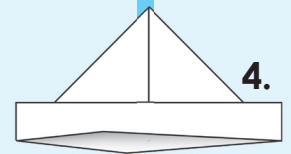
1.



2.



3.



4.

Hats can help protect your skin. Sunscreen helps protect your skin. You should wear sunscreen every day, even if you wear a hat.

Draw a daytime picture. Draw the sun in the sky.
Write day under the picture.

