

K-2 Printables for *Living Sunlight*

Printable 1. Sunlight-Energy Comes Alive!

Printable 1 is the first in a series of four printables called “Sunlight-Energy Comes Alive!” Printable 1 is a teaching tool to be used as a review after you have read *Living Sunlight* with your students. Show it to the students and go through it with them. Make sure they understand the idea of the illustration — it shows the steps in a process and each arrow “says” that something has happened. This illustration shows the basic idea of *Living Sunlight* — the idea that is the most important for students to learn.

Printable 2.

A worksheet for students to complete after you have gone over printable 1 with them.

Printable 3.

Another version of a worksheet for students similar to printable 2. This one provides pictures as cues.

Printable 4.

A more difficult version of the same worksheet.

Printable 5. Crossword

A crossword puzzle based on *Living Sunlight* vocabulary.

Printable 6. Plants or Animals?

A review of the ideas of Living Sunlight with a focus on the differences between plants and animals.

Printable 7. Recipe for Plant Food

A review of how plants make their food in some detail.

Printable 8. Living, Breathing Plants!

Fill-in-the-blanks and true-false questions about the basic ideas of *Living Sunlight*.

Printable 9. In and Out

This printable follows the cycling of oxygen and carbon dioxide. This may be too advanced for young children.

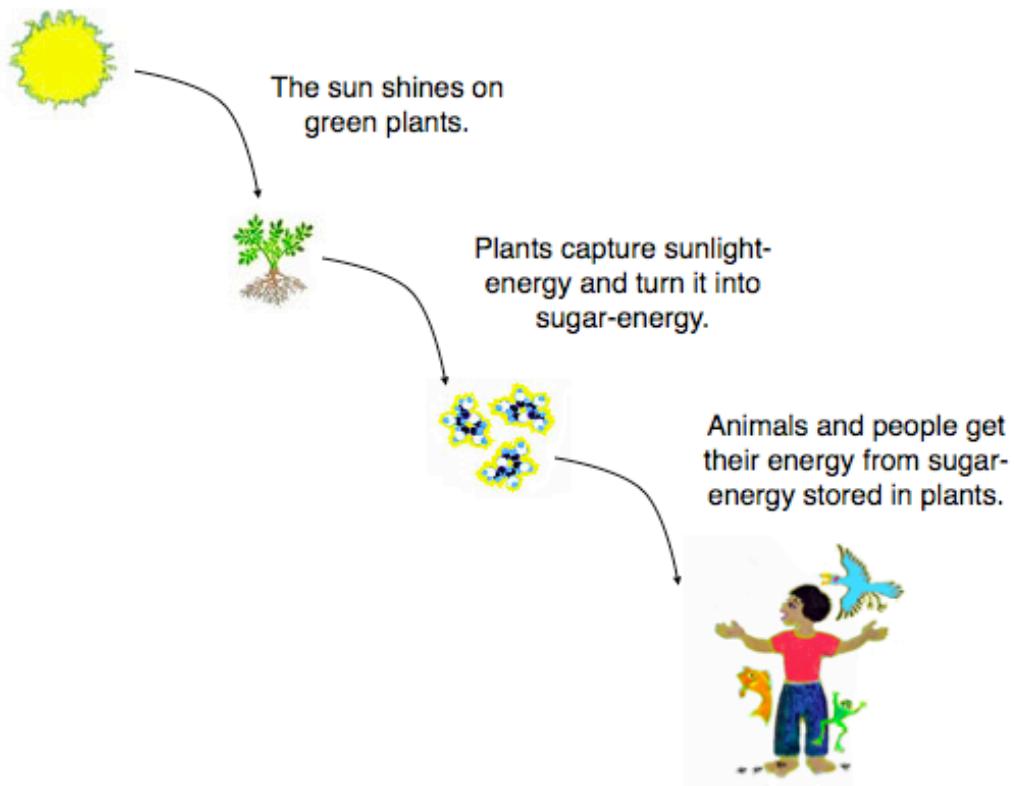


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Sunlight-Energy Comes Alive!

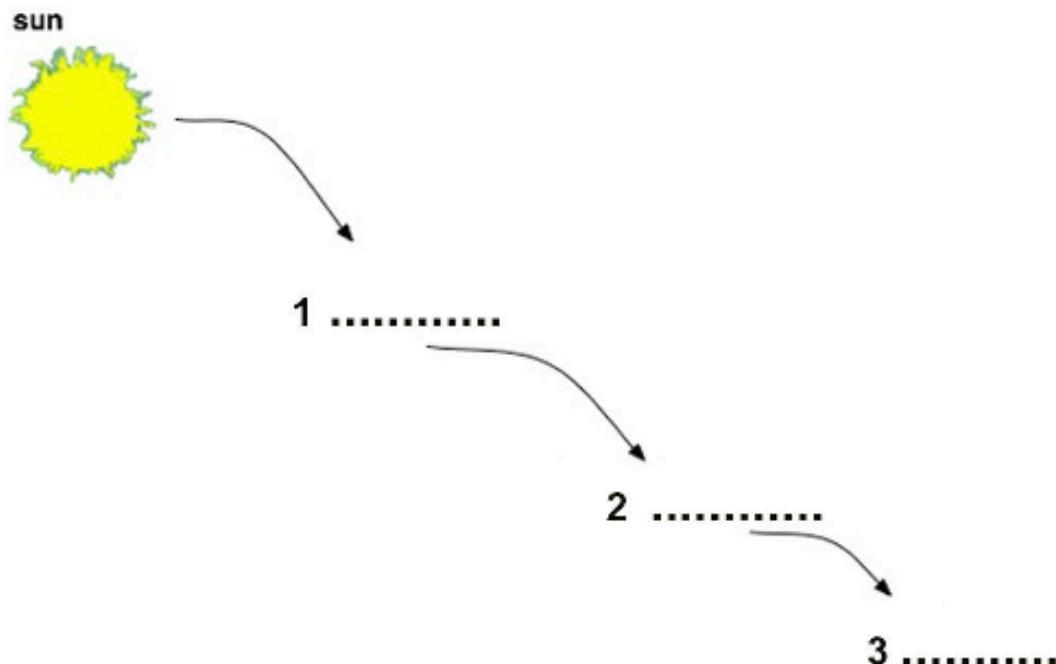
Sunlight gives us energy to live, but it has to move through living things in the right order — or else it doesn't work. Here is a picture that shows what happens.

I'm going to show you the picture and we'll go through it and look very carefully to make sure we understand it. Then I'll give you the pieces of the picture and ask you to put the picture back together.

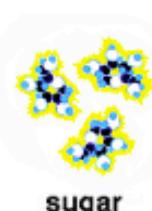


Sunlight-Energy Comes Alive!

Sunlight gives us the energy to live, but it has to move through Living Things in the right order - or else it doesn't work!
Answer the questions so sunlight can move through Living Things.



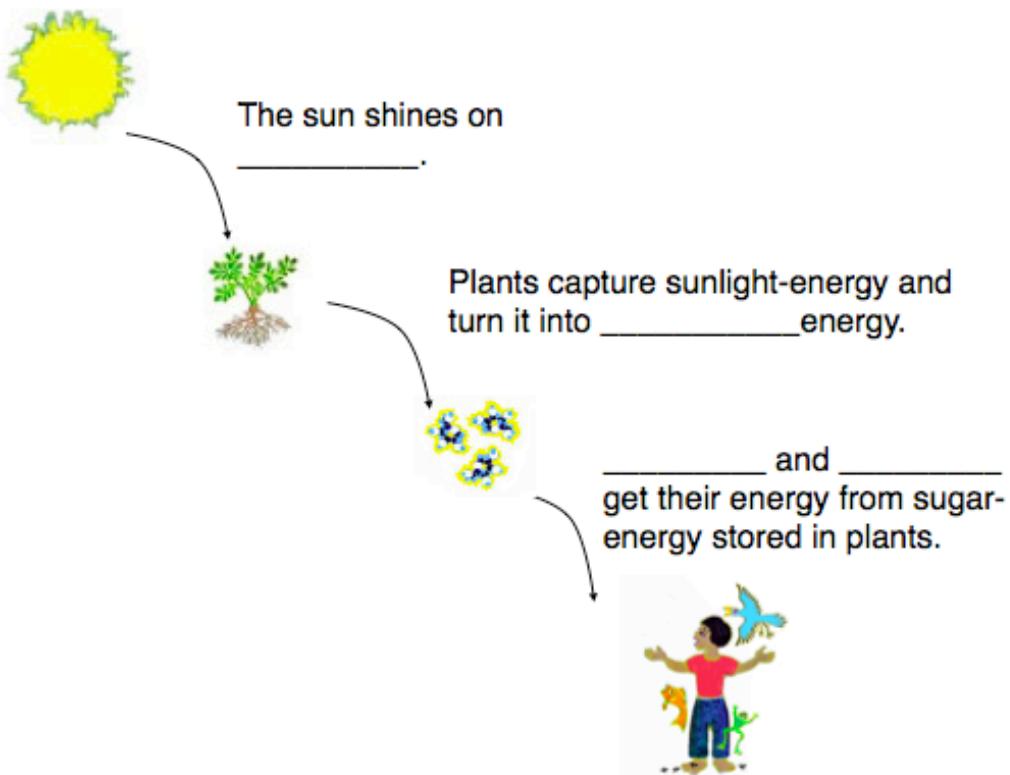
1. What catches sunlight?
2. What is in our food that gives us sunlight - energy?
3. What has to eat plants to get energy?



Sunlight-Energy comes alive!

Use the words below to fill in the blanks on the pictures.

green plants people animals sugar

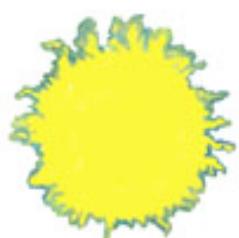
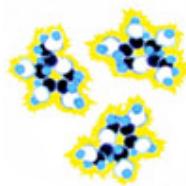


Sunlight Energy Comes Alive!

Cut out the pieces of the picture on this page and put them together in the right order to show how sunlight energy comes alive.

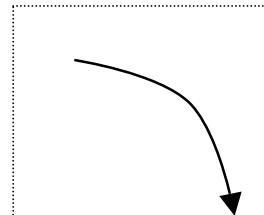
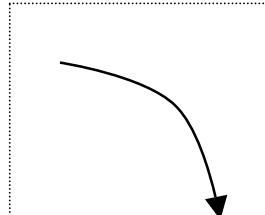
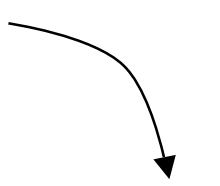


Animals and people get their energy from sugar energy stored in plants.



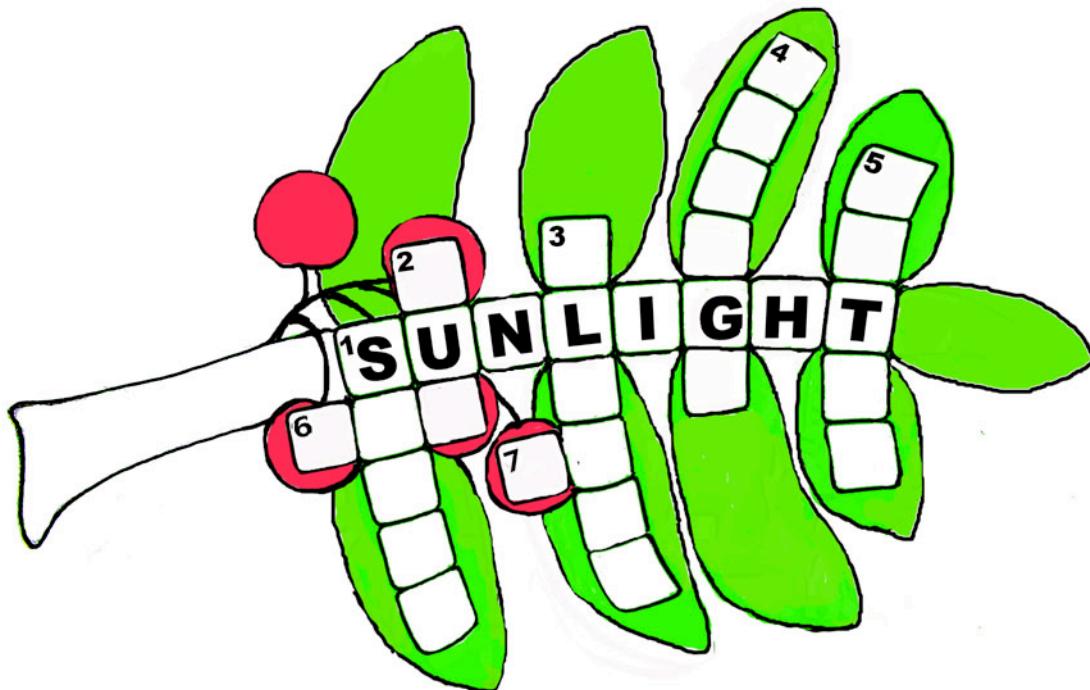
Plants capture sunlight energy and turn it into sugar energy.

The sun shines on green plants.



Crossword Puzzle

Fill in the right word to complete the sentence for each number.



Across

1. _____ gives energy to everything alive.
6. Animals breathe _____ carbon dioxide.
7. Animals breathe _____ oxygen.

Down

1. Plants use sunlight energy to make _____.
2. Plants breathe _____ oxygen.
3. Only _____ can catch sunlight and make life.
4. Plants get their _____ from sunlight.
5. Plants need _____, carbon dioxide and sunlight to live.

Plants or animals?

Fill in the words “plants” or “animals” below.

Green _____ get their energy from sunlight.

_____ get their energy from green plants.

All animals depend on green _____ — even meat-eaters!

Some animals eat green _____ for food.

Other animals eat _____ that ate the green plants.

Without green _____ there would be no life on Earth.

Extension: Illustrate the sentences above on a separate sheet of paper. Write captions or dictate captions to your teacher.

Recipe for Plant Food

What do plants eat? Plants make their own food, called sugar.
Fill in words to help complete the recipe below.

Ingredients:

- Carbon dioxide from the air
- Water
- Sunlight

Instructions to plants:

1. Suck up _____ from the ground.
2. Catch _____ with your leaves.
3. Use _____ from the sun to mix things up.
4. Breathe out _____ from the water.
5. Breathe in _____ from the air.
6. Now use sunlight-energy and carbon dioxide to make _____.
7. Sugar is your _____!
8. Use sugar to make all your parts, like leaves, _____, fruits and flowers.

food energy water sugar sunlight air
carbon dioxide seeds oxygen fruit leaves

Extension: Make a Plant Food Cookbook!

- Staple 2-3 pieces of construction paper together.
- Cut out the 8 steps above.
- Draw pictures to illustrate at least 4 of the steps.
- Make a cover for your cookbook with a picture.
- Now use glue stick to paste the words and pictures inside.

Living, Breathing Plants!

Use the words below to finish the sentences.

sun air water food light plants
energy roots dirt sugar

Sunlight is _____.

Green plants catch energy from the _____.

Plants suck up _____ from the ground, using their _____.

Plants breathe _____.

Plants make their own _____. This food is called _____, but it does not taste like candy!

Without _____ there would be no life on Earth.

Circle the three things that plants need to make their own food

water dirt air seeds sunlight worms

True or false?

- Plants make food from seeds.
- Plants make food from carbon dioxide from the air.
- Plants make food from sucking up dirt.
- Plants make food from water.
- Plants make food from sunlight.
- Plants make food from fruit.

In or Out?

Fill in the word “in” or “out” below.

Plants breathe ____ carbon dioxide.

Plants breathe ____ oxygen.

Animals breathe ____ carbon dioxide.

Animals breathe ____ oxygen.

Plants breathe ____ oxygen, which animals need to live.

Animals breathe ____ carbon dioxide, which plants need to live.

Extension: Make a drawing to show how plants and animals breathe. Include arrows to show the flow and cycle of energy.

Q and A

Choose from the following words to answer these questions.

air sun carbon dioxide sky trees plants

Q: Where do green plants get the energy that they need to grow and stay alive?

A: From the ____.

Q: Where do animals—including people—get the energy that they need to grow and stay alive?

A: From green ____.

Q: How do animals help green plants?

A: They breathe out _____, which plants need to make more food.