



Essential Question

What Materials Make Up Objects?



Engage Your Brain

Find the answer to the question in the lesson.

What could you make with this wood?



Active Reading

Lesson Vocabulary

- 1 Preview the lesson.
- 2 Write the 3 vocabulary terms here.

Play Your Part

Objects may be made of different parts. The parts go together to make the whole.

Look at this bicycle. It has wheels, a frame, and other parts. These parts go together to make a bicycle.

Active Reading

A detail is a fact about a main idea. Draw a line under a detail. Draw an arrow to the main idea it tells about.



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► Write labels for the parts of the bicycle.

bicycle

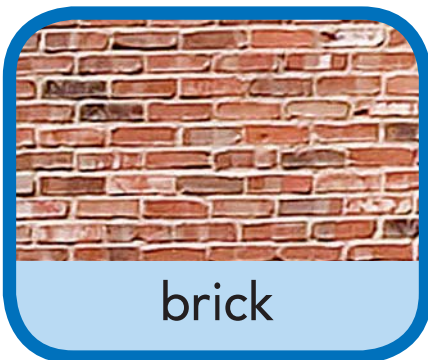
A Material World

Look at this house. One part is brick. Another part is metal. Other parts are wood. The windows are glass.

Brick, metal, wood, and glass are materials. **Materials** are what objects are made of.

Active Reading

Find the sentence that tells the meaning of **materials**. Draw a line under the sentence.



► Write labels to name four materials in this house.



Made to Order

Materials are natural or human-made.

Natural materials are found in nature. For example, cotton is from a plant. Wood is from trees. Metal is in rocks.

People make **human-made** materials such as plastics and nylon. Scientists first made them in a lab. Scientists changed petroleum into these new materials not found in nature.



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wooden boat with nylon sail



cotton shirt

Some objects are made of natural materials. Others are made of human-made materials. Some objects are made of both natural and human-made materials.

▶ **Mark an X on the object made from both natural and human-made materials.**



plastic toys

Everyday Materials

Do you have a pair of jeans? Cotton jeans are made in factories. Here is how.

Active Reading

Things may happen in order. Draw a line under the step that happens first.



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1



Looms weave cotton into cloth.

2



Workers use machines to cut and sew the cloth.

3



Workers use machines to put on metal rivets.

4

Now the jeans are ready to wear!



Sum It Up >>

1 Draw It!

Draw something made of glass on the house.



2 Match It!

Draw a line to match each toy with the kind of material it is made from.



human-made



natural



both



Name _____

Vocabulary Review

Color the letters to spell the vocabulary words.
Write the words to complete the sentences.

human-made

materials

natural

n	a	t	u	r	a	l	t	w	k
c	t	o	w	r	e	g	y	p	s
h	u	m	a	n	m	a	d	e	y
g	m	a	t	e	r	i	a	l	s
k	n	y	u	o	s	d	x	p	m




- 1 Objects are made of _____.
- 2 Materials made in a lab are _____.
- 3 Materials found in nature are _____.



Apply Concepts

Complete the chart. Name and classify the materials each object is made from.

Materials Chart

Object	Material	Natural, human-made, or both
1 	<hr/> <hr/>	<hr/>
2 	<hr/> <hr/>	<hr/>
3 	<hr/> <hr/>	<hr/>

Take It Home!

Family Members: Play a game with your child to identify the parts and materials of objects around the home. Classify the materials as natural, human-made, or both.