BRICK BRICK

STUDENT WORKBOOK





SOFT ROCK

What do you know about rocks? They're strong, right? Well, you'll soon discover that everything has both strengths *and* weaknesses.

🕒 BUBBLE TROUBLE 💳

WHAT YOU NEED:

FROM THE KIT:

- Ice cube tray
- Limestone rock
- Magnifying lens
- Pipet
- Vinegar

OTHER ITEMS: ■ Water

SAFETY!

WARNING! CHOKING HAZARD - Small parts. Not for children under 3 years.

WARNING! DO NOT EAT OR DRINK anything in this kit.

WHAT TO DO:

STEP I Fill one well of the tray about halfway with water.



STEP 2 Fill one well on the other side of the tray a little over halfway with vinegar.

THINK ABOUT IT!



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1. Did the rock do the same things in water and vinegar? What was the same? What was different?

2. Why do you think the rock did what it did in vinegar?

3. What do you think would happen if you left the limestone in vinegar for many days? Why?

LEARN ABOUT LIMESTONE

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ROCKS
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A **rock** is a solid object made of one or more minerals.





The limestone you tested in the experiment is a rock.





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MINERALS

Each mineral is made of a certain chemical in the form of crystals.

HALITE





A **crystal** is a repeating pattern of



CRYSTALS AND PARTICLES

These tiny pieces are called particles.

Halite is made of sodium and chlorine particles. The purple balls show sodium and the green balls show chlorine.





tiny pieces of a solid.

Mica is made of oxygen and aluminum particles. The pink balls show oxygen and the gravish balls show aluminum.

THINK ABOUT IT!

1. Did all the designs work well? Why or why not? Give examples.

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2. How do you think people decide what materials to use when building things?

FANCY FUNCTIONS

Structure and Function

You built structures from different pieces in the last activity. With the structures you just made, you saw how structure is connected to function. **Function** is what something does. For example, the function of a bowl is to hold food. The function of a television is to make moving pictures and sound.

A structure may be built to perform a specific function. Here are some examples.



A gas station pump is built to move gasoline from an underground container to the gas tank of a car



A fire truck carries water hoses and equipment for getting into tall buildings and has sirens.



A bridge must be strong and last a long time to safely get people from one side to the other.



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Kit	SU-BRICKB
Instructions	IN-BRICKBS
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