

10 Math Strategies 2

Get ready!

1 Before you read the passage, talk about these questions.

- 1 What is brainstorming, and why is it a good activity?
- 2 What activities help students practice comparing objects?



The Kindergarten-Level Math Standards

Chapter 3: Data and Measurement

During a lesson on temperature, tell students to try and think of as many examples of **hot** and **cold** items as possible. Make a list on the board of all the items students name in each category. You could also do a similar activity when discussing **color**. For example, have students **brainstorm** and name items that are green. Then, move on to naming items that are blue. Do this for all the colors.

Natural objects can be great learning tools. Take your class outside to **gather** twigs, small rocks, leaves, and similar items. Have students **group** items by type. Then, have them **order** items from longest to shortest or biggest to smallest. This gives students some hands-on practice with making **comparisons** between objects.

Students can also use **string** to measure the lengths of some of these natural objects. To do this, have students hold one end of the string at one end of the object. They should then stretch the string across the object's length and make a mark on the string at the object's end point. Then, have students hold their strings up to **rulers** to determine how many inches or centimeters the object measures. They can also use string as a tool for measuring **height**.



Reading

2 Read the textbook excerpt. Then, choose the correct answers.

- 1 What is the purpose of the passage?
 - A to give tips for how to lead brainstorming sessions
 - B to detail the science competencies students must achieve
 - C to provide ideas for how to use natural materials in art projects
 - D to suggest activities to help teach measurement-related standards
- 2 Which of the following is NOT a topic for brainstorming suggested in the passage?
 - A things that are hot
 - B things that are cold
 - C things that are green in color
 - D things that are found in nature
- 3 What is a use of natural objects that is suggested in the passage?
 - A sorting natural objects by type
 - B weighing natural objects using a scale
 - C tying natural objects together with string
 - D comparing natural and manmade objects

Vocabulary

3 Fill in the blanks with the correct words from the word bank.

Word BANK

brainstorm color comparison
group natural objects string

- 1 Twigs, leaves, and rocks are examples of _____.
- 2 Please _____ and name different items that are orange.
- 3 The student used a _____ as a tool to help measure the object.
- 4 Have students _____ the different objects they collected by type.
- 5 Who can think of something that is purple in _____?
- 6 Be sure to encourage the student to form a _____ between the two objects.