



Name _____ Class _____ Date _____

1 For a substance to be called a **mineral** it must meet **four** criteria. Which of the following is **not** part of the definition of a mineral?

A it is a solid
B it has a crystal structure
C it is made from organic materials
D it is formed in nature



2 Sandy brings a **chunk of ice** in from the **school yard**. It is a mineral. Remember that water does form crystals when it freezes. Water crystals are better known as snow. Mrs. Jones brings in an **ice cube** from the **freezer** in the teachers' lounge. **Is Mrs. Jones' ice cube a mineral?**

A Yes, because it is a crystalline solid.
B No, because it is organic in nature.
C Yes, because it is composed of nonliving material.
D No, because it was not formed in nature.



3 Minerals are most commonly classified by their chemical composition. Some of the classes or categories are **oxides, halides, carbonates, and sulfides**. The mineral corundum has a chemical

4 Mineralogists categorize minerals into two distinct groups based on their chemical compositions: **silicates** and **nonsilicates**.

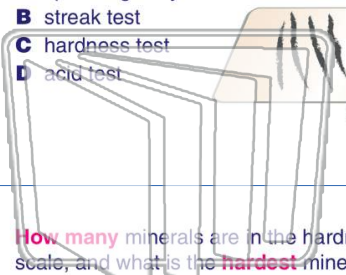


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7 the color of its powdered form?

A specific gravity measurement
B streak test
C hardness test
D acid test



8 Mineralogists find the hardness of an unknown mineral by comparing it to a standard list of minerals known as **Mohs' hardness scale**. **On Mohs' hardness scale, which mineral is between apatite and quartz, and what number hardness is it?**

A calcite, hardness 4
B calcite, hardness 3
C orthoclase feldspar, hardness 7
D orthoclase feldspar, hardness 6

Mohs' Hardness Scale	
1 Talc	6 Feldspar
2 Gypsum	7 Quartz
3 Calcite	8 Topaz
4 Fluorite	9 Corundum
5 Apatite	10 Diamond

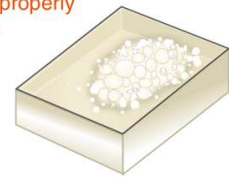
9 **How many** minerals are in the hardness scale, and what is the **hardest** mineral?

A 5 minerals, diamond is the hardest
B 10 minerals, diamond is the hardest
C 5 minerals, quartz is the hardest
D 10 minerals, quartz is the hardest

Mohs' Hardness Scale	
1 Talc	6 Feldspar
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10 When a drop of weak acid is applied to a piece of the mineral _____ this mineral will effervesce (that is "fizz"). **This test can always properly identify this mineral.**

A calcite
B fluorite
C gypsum
D topaz

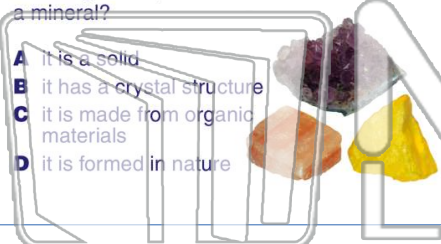




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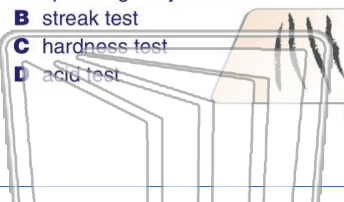


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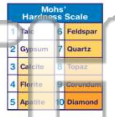
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