

NAME:

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CLASS:

Test Chapter 4 section 4.1

Crystal Systems Worksheet

Mohs Hardness Scale

Hardness		Hardness of Common Objects
Talc	1 (softest)	
Gypsum	2	fingernail (2.5)
Calcite	3	piece of copper (3.5)
Fluorite	4	iron nail (4.5)
Apatite	5	glass (5.5)
Feldspar	6	steel file (6.5)
Quartz	7	streak plate (7)
Topaz	8	scratches quartz
Corundum	9	scratches topaz
Diamond	10 (hardest)	scratches all common materials

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1. What does the property of mineral hardness measure?
 - a. Hardness measures how easily a mineral can reflect light
 - b. Hardness measures how easily a mineral's breakage occurs
 - c. Hardness measures how easily a mineral can be scratched
 - d. Hardness measures how easily a mineral can leave a mark onto a porcelain tile
2. What is the softest mineral shown on the table on the other side?
 - a. Talc
 - b. Feldspar
 - c. Quartz
 - d. Diamond
3. From the previous question what is its hardness on the Mohs scale of such a sample?
 - a. hardness of 1
 - b. hardness of 4
 - c. hardness of 5
 - d. hardness of 10
4. What is the hardest mineral shown from the illustration on the other side?
 - a. Talc
 - b. Feldspar
 - c. Quartz
 - d. Diamond
5. From the previous question what is its hardness on the Mohs scale of such a sample?
 - a. hardness of 1
 - b. hardness of 4
 - c. hardness of 7
 - d. hardness of 10
6. Explain how you could estimate the hardness of a mineral that does not appear on the Mohs scale.
 - a. By comparing a known sample to the unknown sample
 - b. By comparing an unknown sample to the unknown sample
 - c. By comparing a known sample to the known sample
7. Which common object will scratch feldspar?
 - a. An iron nail
 - b. A glass
 - c. A steel file
 - d. A streak plate
8. From the choices listed below, which mineral on the Mohs scale will scratch apatite?
 - a. Calcite
 - b. Quartz
 - c. Talc
 - d. Fluorite
9. From the choices listed below, which mineral will apatite scratch?
 - a. Quartz
 - b. Calcite
 - c. Diamond
 - d. Feldspar
10. What is the hardness of a mineral that scratches gypsum but cannot scratch calcite?
 - a. Hardness number that is below 2.0
 - b. Hardness number that is between 2.1 & 2.9
 - c. Hardness number that is above 3.0