

NAME:

DATE:  
Test Chapter 4 section 4.1

CLASS:

## 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

1. What does the property of mineral hardness measure?
2. What is the softest mineral shown, and what is its hardness on the Mohs scale?
3. What is the hardest mineral shown, and what is its hardness on the Mohs scale?
4. Explain how you could estimate the hardness of a mineral that does not appear on the Mohs scale.
5. Which common object will scratch feldspar?
6. Which minerals on the Mohs scale will scratch apatite? Which will apatite scratch?
7. What is the hardness of a mineral that scratches gypsum but cannot scratch calcite? Explain your answer.