

What are some other ways to identify minerals?

Lesson Review

PART A Complete the following.

1. What is density? _____
2. What mineral shows the property of magnetism? _____
3. Name three minerals that are attracted to a magnet. _____
4. a. What does the acid test tell you about a mineral? _____

- b. What happens to the surface of a mineral if the acid test is positive? _____
- c. What are two minerals that contain calcium carbonate? _____

PART B Match each term to its definition. Write the letter of the correct definition in the space provided.

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|-------------------------|--|
| _____ 1. density | a. helps identify minerals according to whether they fizz |
| _____ 2. acid test | b. g/cm^3 |
| _____ 3. magnetic field | c. measure of the purity of gold |
| _____ 4. carat | d. a force that acts on objects containing iron, nickel, or cobalt |

Skill Challenge

Skills: *predicting, classifying*

If an object is denser than a liquid, it will sink in that liquid. The density of water is $1.0 \text{ g}/\text{cm}^3$. The density of the liquid metal mercury is $13.5 \text{ g}/\text{cm}^3$. Use the information below to tell if each of the objects will sink or float in water and in mercury. Place a check mark in the correct columns.

Object	Water		Mercury	
	Sink	Float	Sink	Float
1. Aluminum ($2.7 \text{ g}/\text{cm}^3$)				
2. Ice ($0.90 \text{ g}/\text{cm}^3$)				
3. Steel ($7.8 \text{ g}/\text{cm}^3$)				
4. Cork ($0.2 \text{ g}/\text{cm}^3$)				
5. Lead ($11.3 \text{ g}/\text{cm}^3$)				
6. Gold ($19.3 \text{ g}/\text{cm}^3$)				

Answer Key

What are other ways to identify minerals?

Lesson Review

PART A

1. amount of matter in a given volume 2. magnetite
3. iron, nickel, and cobalt 4. a. The acid test shows whether minerals contain calcium carbonate. b. The surface fizzes. c. calcite and dolomite

PART B

1. b 2. a 3. d 4. c

Skill Challenge

Students should place check marks in the following columns:

Water	Mercury
1. sink	float
2. float	float
3. sink	float
4. float	float
5. sink	float
6. sink	sink