Name _____

Date _____

Lesson Quick Study

# Lesson 1 - What Are Minerals?

**Mohs' Hardness Scale**

1. talc
2. gypsum
3. calcite
4. fluorite
5. apatite
6. orthoclase
7. quartz
8. topaz
9. corundum
10. diamond

## 1. Inquiry Skill Practice–Classify

**Use the Mohs' hardness scale to classify the following minerals by writing the approximate hardness number for each.**

7 Fayalite can scratch orthoclase but not topaz.

2 Amber can scratch talc but not calcite.

5 Pectolite can scratch fluorite but not orthoclase.

## 2. Use Vocabulary

**Complete each sentence with the correct term from the box.**

mineral
luster
hardness
streak

The color of the powder left behind when you rub a mineral against a white tile or a streak plate is called the streak. Luster is the property by which a mineral's surface reflects light. Hardness is a mineral's ability to resist being scratched.

## 3. Focus Skill Reading Skill Practice–Main Idea and Details

**Read the selection. Underline the main idea. List at least two details about the main idea.**

Pat had to classify minerals for her science project. Pat used containers to store the minerals according to their properties. She used a shoe box to store the minerals that scored 5 or less on the Mohs' hardness scale. Pat used an egg carton to store the minerals that had a waxy luster. For those minerals that had a blue streak, Pat used a small plastic box.

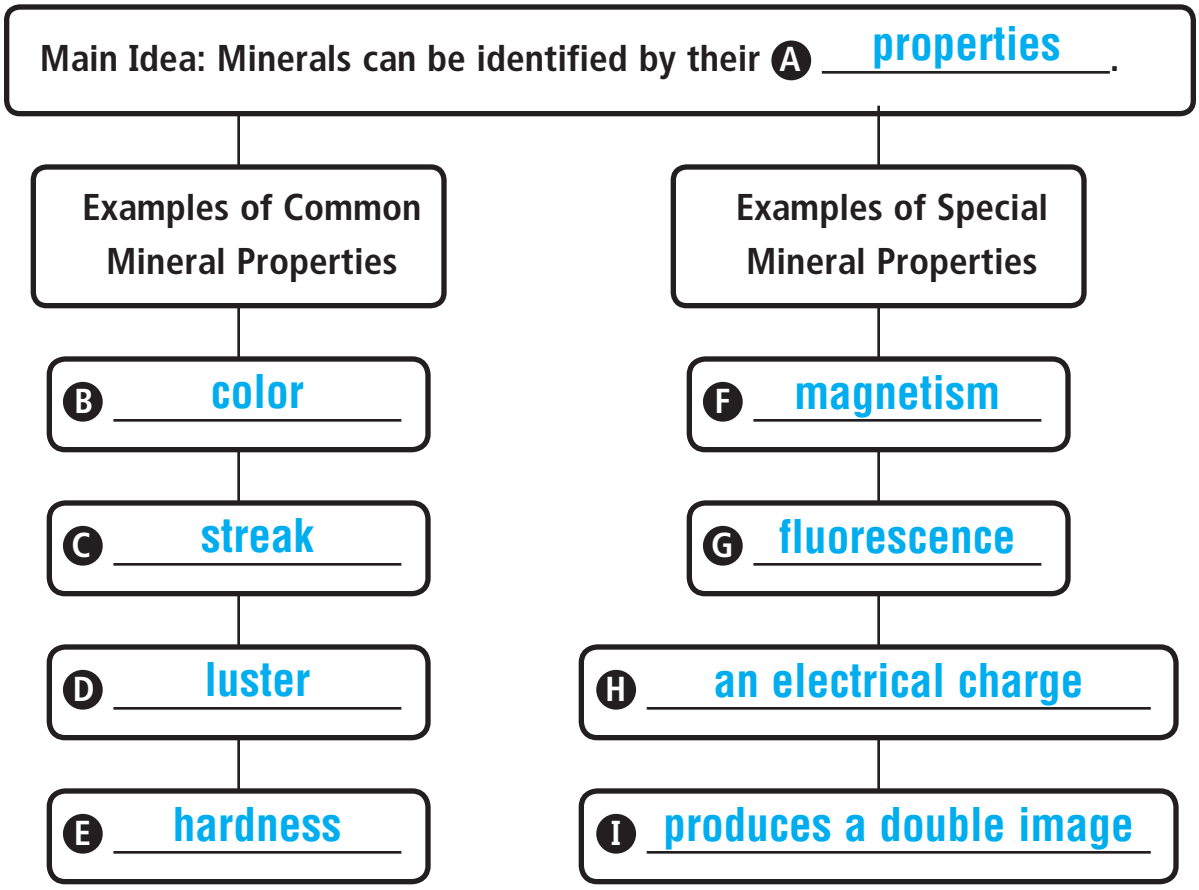
Possible answer: Pat used a shoe box to store the minerals that scored 5 or less on the Mohs' hardness scale. Pat used an egg carton to store the minerals that had a waxy luster.

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## 4. Main Idea and Details

**Complete the graphic organizer below.**




## 5. Critical Thinking and Problem Solving

Tina is classifying a set of minerals. She puts all the minerals that have about the same color in the same group. Is Tina's way of classifying minerals correct? Explain.

Possible answer: Tina's way of classifying minerals is incorrect. Color alone cannot be used to classify minerals. There are minerals that belong to the same group but have different colors. There are minerals that have similar colors but different hardness, luster, or streak.

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