

Name _____

Instructions: Read each statement and predict whether it is true or false on the basis of what you know about gems. As you read, confirm or revise your prediction in the third column. If you need to revise the statement, change it to a true statement and write it in the box. If you confirmed your prediction, write the page number that you found the answer on.

Statements	T or F?	Revise or Confirm Your Prediction
1. Diamonds are formed by minerals being squeezed under layers of rock.		
2. A ruby is a crystal.		
3. Crystals are formed by volcanoes.		
4. Coral is a gem.		
5. The word <i>carat</i> , which refers to the size of the gem, comes from the name of the vegetable, <i>carrot</i> .		
6. Clarity refers to the color of the gem.		
7. Emeralds are the hardest natural things in the world.		
8. A flawed emerald can be worth more than a perfect diamond.		
9. Cultured pearls are made by machines.		

Name _____

Instructions: Use the boxes below to write the cause-and-effect sequence for each process. You can look back in the book to help you.

How sapphires are formed (p. 7)

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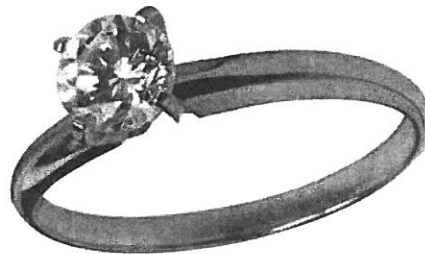
How opals are formed (p. 7)

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How gems become jewelry (p. 10-12)

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How amber is formed (p. 9)

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How pearls are formed (p. 9)

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GEMS: TREASURES FROM THE EARTH • LEVEL Y • 2

SKILL: CAUSE AND EFFECT

Name _____ Date _____

Instructions: Read each question carefully and choose the best answer.

1. Why do rare gems cost a great amount of money?
 - (A) They are rare.
 - (B) Mining them is often done by hand.
 - (C) They are only found deep within the earth.
 - (D) All of the above
2. Where are most crystals formed?
 - (A) on the slopes of volcanoes
 - (B) deep within the earth
 - (C) in rivers in Africa
 - (D) all of the above
3. How are crystals and organic gems different?
 - (A) Crystals are minerals, and organic gems come from living things.
 - (B) Crystals are found near the surface of the earth, and organic gems come from deep within the earth.
 - (C) Crystals are skeletons of tiny sea creatures, and organic gems are mixed minerals with strict shapes.
 - (D) Crystals are used in jewelry, and organic gems are used on tools.
4. What are atoms?
 - (A) types of gems created from crystals
 - (B) very small particles that make up all things on Earth
 - (C) certain types of gems found only in South America
 - (D) types of sea creatures that form coral reefs

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5. Why is it important for a gem in a ring to be high on the Mohs scale?
 - (A) so it will have a purer color
 - (B) so it will not have any streaks or grain
 - (C) so it will not be damaged during wear
 - (D) so it will be closer to a diamond on the scale

6. How is a gem valued?
 - (A) by where it was mined
 - (B) by how many facets it contains
 - (C) by how hard it was to locate and mine
 - (D) by its cut, carat, color, and clarity

7. What is not true about natural pearls?
 - (A) They can take years to form.
 - (B) They are perfectly round.
 - (C) They are an organic gemstone.
 - (D) They form inside oysters from a grain of sand.

8. Which of the following includes an opinion?
 - (A) The most valuable quartz is a stone called *opal*.
 - (B) Blue-green turquoise often has pretty spots and streaks running through it.
 - (C) Gem-quality emeralds are rare and usually small.
 - (D) Quartz is found all over the world, in all colors of the rainbow.

9. What type of gem is formed when a mineral is squeezed under layers of rock?
 - (A) diamond
 - (B) emerald
 - (C) pearl
 - (D) opal

10. Which of the following is not a **crystal**?
 - (A) a diamond
 - (B) a pearl
 - (C) a sapphire
 - (D) an opal

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