

Georgia  
**CRCT**  
online



**Sci Practice 80001**

Eighth Grade Science  
Test

Fulton Teacher

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Instructions:**

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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1. How do scientists know that dinosaurs and horses did not exist in the same geological eras?

- A. Dinosaurs would have destroyed any mammals, including horses.
  - B. Horses would have become extinct along with dinosaurs.
  - C. There are no rock layers that have fossils of both dinosaur and horse remains.
  - D. Horse fossils are found only in rock layers below layers with dinosaur fossils.
- 

2. When you observe a lunar eclipse from Earth, the phase of the Moon is

- A. new.
  - B. full.
  - C. gibbous.
  - D. a crescent.
- 

3. The speed of a river is usually fastest at the

- A. center.
  - B. sides.
  - C. bottom.
  - D. curves.
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Name: \_\_\_\_\_

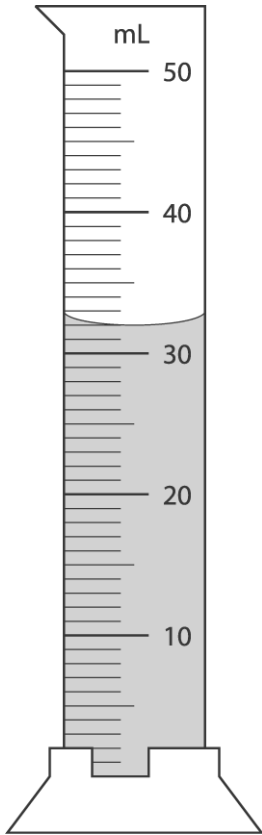
Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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Use the picture below to answer question 4.



4. Which is the volume of liquid in the graduated cylinder?

- A. 30.2 mL
  - B. 30.3 mL
  - C. 32.0 mL
  - D. 33.0 mL
-

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

---

5. The three-dimensional diagram below illustrates the crustal plate activity off the northwest coast of the United States.

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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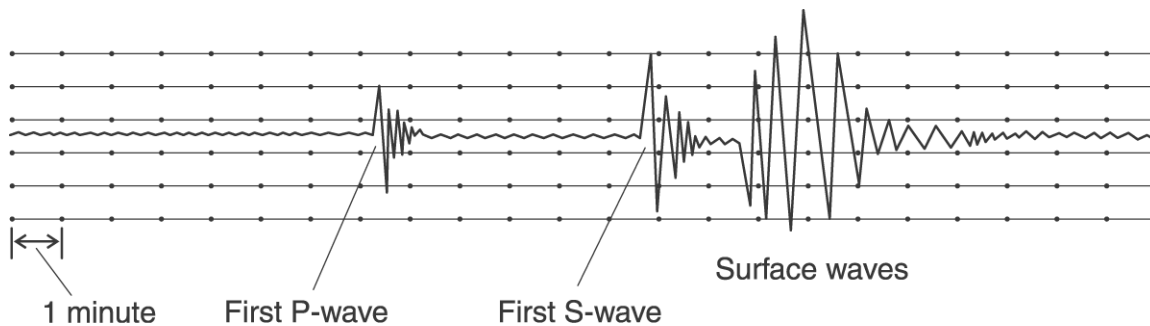
Which motion causes volcanic activity in the Cascade Range?

- A. the Pacific plate and the Juan de Fuca plate pushing against each other
  - B. the Juan de Fuca plate moving underneath the Pacific plate
  - C. the Juan de Fuca plate moving underneath the North American plate
  - D. the Pacific plate and the Juan de Fuca plate separating
- 

6. Air pressure can be measured in

- A. milligrams.
  - B. millibars.
  - C. millimeters.
  - D. milliseconds.
- 

7. The diagram below shows a seismographic recording of an earthquake. Which inference should be drawn regarding the speed of the waves associated with earthquakes?



- A. P-waves travel the fastest.
  - B. S-waves travel the fastest.
  - C. Surface and S-waves travel at the same speed.
  - D. Earthquake waves travel at the same speed.
-

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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8. London is much farther north than Chicago, yet it is warmer in London in the winter than it is in Chicago. Why is this true?

- A. Waters around England are warmed by many underwater volcanoes.
  - B. London receives more sunshine in the winter than other places farther south.
  - C. London's climate is affected by warm ocean currents that flow from the south.
  - D. The Sun's rays shine at a higher angle in London than in Chicago.
- 

9. Which statement **best** explains how a lunar eclipse occurs?

- A. Earth is aligned between the Sun and the Moon, and is casting its shadow on the Moon.
  - B. The Moon is aligned between Earth and the Sun, and is blocking all or part of the Sun's surface.
  - C. The Sun is aligned between Earth and the Moon, and the Moon's surface cannot be seen.
  - D. Venus is aligned between the Sun and Earth, and the Sun's surface cannot be seen.
- 

10. Which is a serious consequence of building dams to prevent flooding of floodplains?

- A. Minerals are deposited in the lake behind the dam instead of on the floodplain.
  - B. Wetlands that were previously filled become soggy and many homes are ruined.
  - C. The speed of runoff is increased and the amount of groundwater is decreased.
  - D. Valuable drinking water is no longer available for nearby communities.
- 

11. Atoms with positive or negative charges sometimes combine to form compounds. These compounds are held together by

- A. covalent bonds.
  - B. ionic bonds.
  - C. nuclear fusion.
  - D. nuclear fission.
-

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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12. The section of a continent that lies just off the shoreline and extends beneath the ocean is called the continental

- A. plain.
  - B. shelf.
  - C. basin.
  - D. ridge.
-

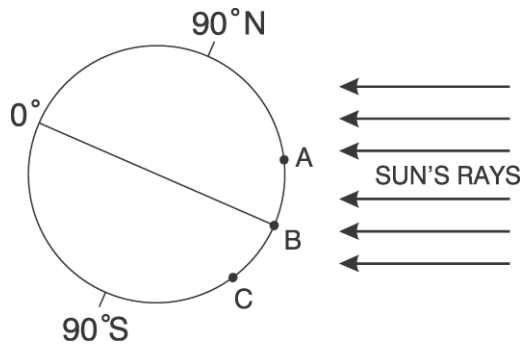
Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

13. The diagram below shows the position of Earth in relation to rays of light from the Sun. A, B, and C are three positions on Earth's surface.



Which graph **best** shows the relationship between intensity of solar radiation and position on Earth's surface?

- A.
- B.
- C.
- D.

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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14. Which statement is a hypothesis?

- A. The boiling point of water is 100°C.
  - B. A gallon of water weighs about 8 pounds.
  - C. Hydrogen was first prepared by Cavendish in 1766.
  - D. Saturn's rings were formed from a moon that had exploded.
- 

15. A student wanted to determine the effect of temperature on the growth of molds. She placed four covered glass dishes of mold in the refrigerator and four covered glass dishes of the same kind of mold under a light in a warm room. All of the mold had the same amount of food. Which procedure would have improved the experiment?

- A. keeping all of the dishes in the dark
  - B. providing more food for the mold in the refrigerator
  - C. using only one dish of mold in each place
  - D. using a different kind of mold under a light in a warm room
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Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

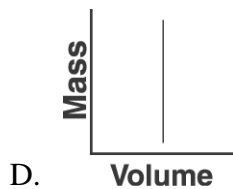
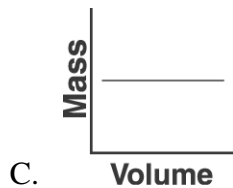
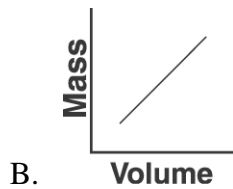
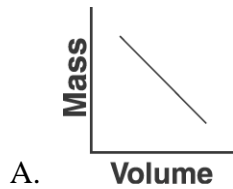
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Use the data table below to answer question 16.

**Three Mineral Samples**

Mineral Sample	Mass (g)	Volume (cm <sup>3</sup> )
1	30	10
2	60	20
3	90	30

16. The table shows the mass and volume of three samples of the same mineral. Which graph **best** represents the relationship between mass and volume?



Name: \_\_\_\_\_

Test: Sci Practice 80001

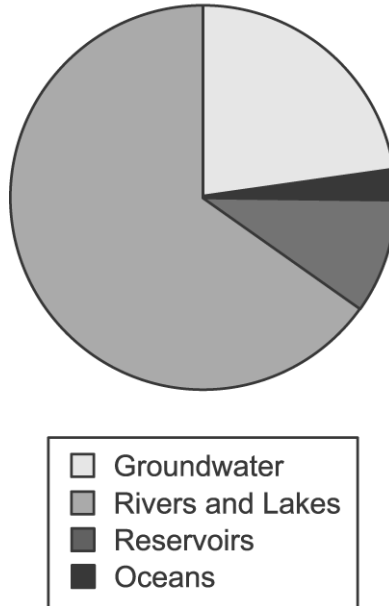
Date: \_\_\_\_\_

Teacher: Fulton Teacher

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Use the pie chart below to answer question 17.

**Public Water Sources**



17. What is the major source of water for public use?

- A. oceans
- B. rivers and lakes
- C. groundwater
- D. reservoirs

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18. Igneous rocks form from

- A. sediment.
  - B. mud.
  - C. gravel.
  - D. magma.
-

Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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19. Which is the name of our galaxy?

- A. Galactica
  - B. Andromeda
  - C. Milky Way
  - D. Magellanic Cloud
- 

*Use the information below to answer question 20.*

Jack constructed an accurate scale model of the solar system. In his model, the Sun was a basketball, Jupiter was a large marble, Neptune was a small marble, and Venus was a grain of sand.

20. In this model, which would most accurately represent the size of Earth?

- A. a large marble
  - B. a tennis ball
  - C. a grain of sand
  - D. a golf ball
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Name: \_\_\_\_\_

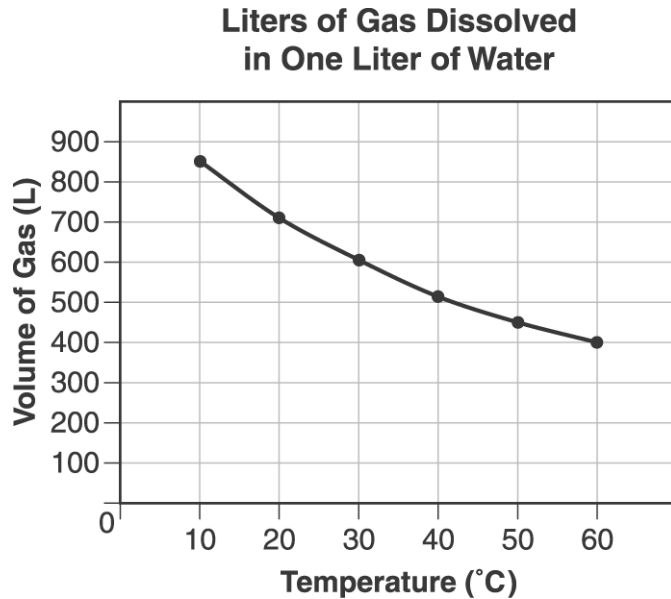
Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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21. Susan experimented to find out how much gas could be dissolved in one liter of water at different temperatures. Her results are shown in the graph below.



Which is the best conclusion from this graph?

- A. There is no relationship between the temperature and the volume of gas dissolved.
  - B. The lower the water temperature, the more gas can be dissolved.
  - C. The greater the volume of water, the more gas will dissolve.
  - D. The higher the water temperature, the more gas can be dissolved.
- 

22. Which two physical changes are essential processes in the water cycle?

- A. oxidation and reduction
  - B. evaporation and condensation
  - C. mixing and separating
  - D. ebbing and flowing
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Name: \_\_\_\_\_

Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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23. Which constellation is visible from Georgia during the winter months?

- A. Sagittarius
  - B. Cygnus
  - C. Scorpius
  - D. Orion
- 

24. Most modern cities obtain their drinking water from

- A. surface reservoirs.
  - B. rivers and streams.
  - C. underground reservoirs.
  - D. desalinated ocean water.
- 

25. Which are the two most abundant elements dissolved in seawater?

- A. Ca and Cl
  - B. Na and Mg
  - C. Na and Cl
  - D. Mg and Ca
-

Name: \_\_\_\_\_

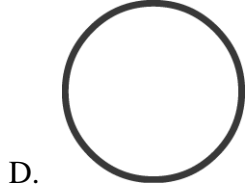
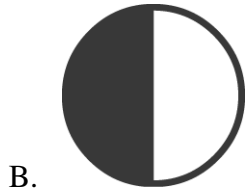
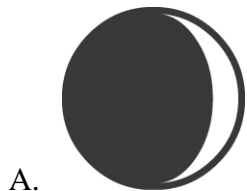
Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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26. Which phase of the Moon is called the gibbous moon?



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27. Some of Earth's rocks are formed by the cooling of a molten material called

- A. magma.
- B. ore.
- C. coal.
- D. lime.

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28. Which factor would be most important to consider when constructing a building in an earthquake zone?

- A. location of fault lines
  - B. direction of lava flows
  - C. amount of rainfall
  - D. average temperature
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Name: \_\_\_\_\_

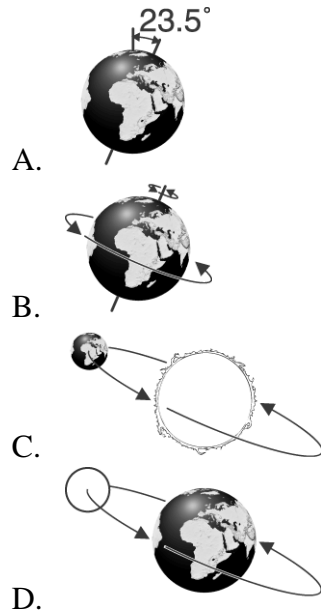
Test: Sci Practice 80001

Date: \_\_\_\_\_

Teacher: Fulton Teacher

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29. Which picture demonstrates rotation?



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30. When a star like the Sun runs out of hydrogen in its center, it evolves into a

- A. red giant.
  - B. blue straggler.
  - C. supernova.
  - D. yellow dwarf.
-