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## Water Quiz

1. Earth's weather and climate are affected LEAST by water's \_\_\_\_\_.

- heat capacity
- surface tension
- phase changes
- density changes

2. Unlike many substances that consist of small molecules, water has high boiling and melting points because water molecules are \_\_\_\_\_.

- sticky
- linear
- symmetrical
- stable

3. Which statement best summarizes the arrangements of water molecules as water goes from solid to liquid to gas?

- They are densely packed; they move farther apart and with greater freedom; they move even farther apart.
- They are locked in an open lattice; they flow over and around each other; they are widely dispersed and move quickly.
- They form dense stacks of sliding sheets; the sheets curl into rolling columns; the columns shrink into tumbling spheres.
- They are immobile like bricks in a wall; they begin to jiggle in place; they break free of the rigid pattern.

4. Analysis of groundwater obtained from a well shows that bacterial levels are unusually high. What is the most likely cause?

- saltwater intrusion caused by overpumping
- an industrial dump uphill from the well
- a hog farm downhill from the well
- overuse of pesticides on nearby farms

5. If you were to use a search engine to find information on water-quality standards, which organization would be the best addition to the search field?

- American Medical Association
- Bottled Water Association
- Society of Chemical Manufacturers
- Environmental Protection Agency

6. If local officials were to address water shortages by rationing drinking water, what would be their best justification?

- Alternative water sources were unavailable.
- Improvement of water quality was impossible.
- Recycled water was suitable for area farms.

Drinking polluted water was dangerous.

7. Organize the terms below to outline the ways increasingly small particles may be dispersed in water. ~~Drag each term or phrase into its correct position at left to organize the items in the proper sequence.~~ *Number the sequence*

Colloids

Suspensions

Solutions

Mixtures

8. A facility that uses large volumes of water to accomplish heat exchange is a \_\_\_\_\_.

- nuclear power plant
- hydroelectric station
- canal's lock system
- computer-chip plant

9. What are the three stages of the water cycle?

- evaporation, condensation, precipitation
- condensation, precipitation, dissipation
- precipitation, sublimation, evaporation
- transpiration, accumulation, precipitation

10. Which note card best summarizes the important points in the article?

- a. Icebergs break into fragments. The fragments freeze together to form thin sheets of sea ice. The sheets thicken when falling snow accumulates on them.
- b. Seawater becomes slushy at the surface. Small, icy disks accumulate. The disks merge to form sheets that thicken as water below freezes on contact.
- c. Icebergs accumulate in bays. This lowers the water temperature, freezing the water between the icebergs. Pressure builds until all of the ice is released to the sea.

**Which is right?**  Note Card 1  
 Note Card 2  
 Note Card 3

11. Water molecules stick together because of (chemical/electrostatic/mechanical/nuclear) forces. But the stickiness is overcome when the temperature (persists/changes/decreases/increases). The molecules in ice are locked in an open pattern, so ice (sinks/floats/contracts/expands) in liquid water.

12. Which note card best summarizes the important points in the article?

- a.
  - The water molecule's bent shape makes it polar.
  - Water that is drained from valleys runs to the sea.
  - Water is useful in irrigation.
- b.
  - Much of Earth's water is liquid and circulates in the oceans.
  - Most of Earth's frozen water is located at the poles.
  - Earth's atmosphere contains water vapor.
- c.
  - Water's structure accounts for its unusual properties.
  - Water moves in global cycles.
  - Water has many uses in civilization.

**Which is right?**  Note Card 1  
 Note Card 2  
 Note Card 3

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