

Water Cycle Test

Review Sheet

Multiple Choice*Identify the choice that best completes the statement or answers the question.***(WC)E.ES.07.12: Describe the relationship between the warming of the atmosphere of the Earth by the sun and convection within the atmosphere and oceans.**

- _____ 1. Wind transfer energy in the atmosphere by the process of:
- a. convection
 - b. conduction
 - c. radiation
 - d. precipitation
- _____ 2. The water cycle is powered by heat from _____.
- a. volcanoes
 - b. cosmic rays
 - c. radioactive decay
 - d. the sun

(W/WC)E.ES.07.13: Describe how the warming of the Earth by the sun produces winds and ocean currents.

- _____ 3. Winds caused by:
- a. the gravitational pull of the moon
 - b. unequal heating of the Earth's surface.
 - c. ocean currents.
 - d. Earth's movement through space.
- _____ 4. To create wind, _____ energy from the sun is converted to the mechanical energy of moving air.
- a. chemical
 - b. radiant
 - c. electrical
 - d. magnetic

(WC)E.ES.07.73: Explain how the temperature of the oceans affects the different climates on Earth because water in the oceans holds a large amount of heat.

- _____ 5. What kind of energy conversion takes place in the sidewalk on a hot sunny day?
- a. thermal to radiant
 - b. radiant to chemical
 - c. chemical to thermal
 - d. radiant to thermal
- _____ 6. As you travel farther north to Canada from the United States, the climate becomes cooler because:
- a. there is much more snow in Canada.
 - b. the seasons are shorter in Canada.
 - c. there are more trees and fewer houses in Canada.
 - d. less solar energy is available at higher latitudes.
- _____ 7. The ocean contributes to the world's climate by _____.
- a. absorbing nitrogen
 - b. storing heat
 - c. storing salt
 - d. releasing carbon dioxide

Name: _____

ID: A

- _____ 8. Generally, the higher the latitude, the _____ the climate is.
- a. warmer
 - b. colder
 - c. more humid
 - d. less windy

(WC)E.ES.07.82: Analyze the flow of water between the components of a watershed, including surface features (lake streams, rivers, wetlands) and groundwater.

- _____ 9. Total area drained by a river system.
- a. Divide
 - b. Delta
 - c. Flood Plain
 - d. Watershed

**Water Cycle Test
Answer Section**

MULTIPLE CHOICE

- | | |
|-----------|--------|
| 1. ANS: A | PTS: 1 |
| 2. ANS: D | PTS: 1 |
| 3. ANS: B | PTS: 1 |
| 4. ANS: B | PTS: 1 |
| 5. ANS: D | PTS: 1 |
| 6. ANS: D | PTS: 1 |
| 7. ANS: B | PTS: 1 |
| 8. ANS: B | PTS: 1 |
| 9. ANS: D | PTS: 1 |

Review
Test

Name: _____

Water Cycle and Climate Test

- ____ 1. Every drop of water on earth belongs to this sphere.
A. Ionosphere B. Hydrosphere C. Watersphere D. Megasphere
- ____ 2. Total percentage of water on the earth's surface.
A. 29% B. 50% C. 71% D. 99%
- ____ 3. Water that falls to the ground and finds its way to drainage system without soaking into the earth.
A. Run-off B. Groundwater C. Water Vapor D. Gas
- ____ 4. Energy source that drives the water cycle.
A. Precipitation B. Sun C. Evaporation D. Pollution
- ____ 5. Total area drained by a river system.
A. Divide B. Delta C. Flood Plain D. Watershed
- ____ 6. What is the name of the watershed that drains the Lansing area of its water run-off.
A. Maple Watershed B. Lansing Watershed C. Grand River Watershed
- ____ 7. Precipitation comes in the following form.
A. Snow B. Rain C. Sleet D. A, B, and C
- ____ 8. Low clouds in the middle of the summer are in what state of matter.
A. Solid B. Liquid C. Gas D. Plasma
- ____ 9. Most of the water used by people in the Lansing area is coming from....
A. Lake Michigan B. Grand River C. Groundwater
- ____ 10. 10% of the water vapor in the atmosphere is coming from plants by this process...
A. Condensation B. Transpiration C. Infiltration D. Precipitation
- ____ 11. Which of the following stores the most heat energy?
A. Glaciers B. Continents C. Oceans D. Groundwater
- ____ 12. The oceans transport heat energy by
A. Currents B. Icebergs C. Fish D. Waves

- _____ 13. What is the chief cause of ocean currents?
A. Ships B. Winds C. Tides D. Earth's Tilt
- _____ 14. This is divided or separated from another by a ridge or rise in the land.
A. Groundwater B. Clouds C. Watershed D. Mountain
- _____ 15. Which of the following statements is **FALSE**?
A. The water on the earth moves from place to place.
B. Water can be either a solid, or a liquid, but not a gas.
C. The total amount of water on the earth stays the same through the ages.
D. Some part of the earth receive more precipitation that other parts.

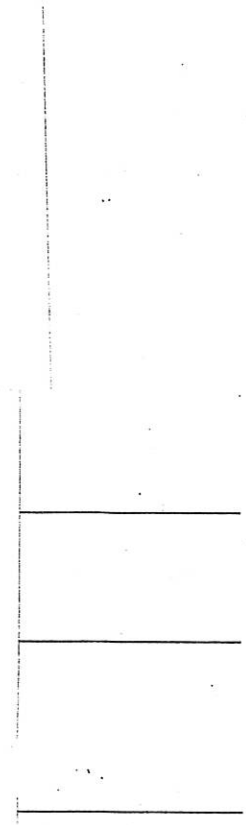
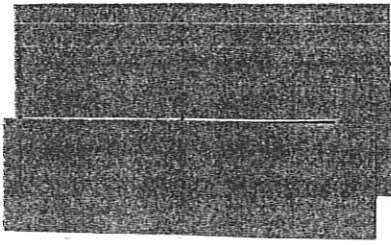
Directions: Write the word true or false for the following questions.

- _____ 1. Streams and rivers that join another river become a larger watershed.
- _____ 2. Groundwater moves like a river but only very slowly.
- _____ 3. The earth gets the same amount of light each day but it is unevenly divided across the earth.
- _____ 4. The Northern Hemisphere of the earth is tilted away from the ~~earth~~^{SUN} in the summer and towards the sun in the winter.
- _____ 5. Climate is only affected by the amount of light from the sun.
- _____ 6. Oceans store a lot of heat energy.
- _____ 7. The Gulf Stream Current carries warm water from the Gulf of Mexico to Europe.
- _____ 8. As you go higher in elevation the warmer the atmosphere gets.
- _____ 9. The warmer climates are near the equator.
- _____ 10. The Great Lakes affect the climate of the state of Michigan.

Use the table below to answer Questions

26, 27, & 28

Average Amount of Precipitation (centimeters)



29. Which one of the following powers the earth's water cycle?
- a. energy from the sun
 - b. clouds colliding together
 - c. salts dissolving in seawater
 - d. the freezing and melting of water
30. Which one of the following factors does NOT influence climate?
- a. clouds
 - b. the sun's energy
 - c. global wind patterns
 - d. soil composition
31. Most of the water on the earth is found in which of the following locations?
- a. oceans
 - b. the atmosphere
 - c. groundwater
 - d. lakes and rivers
32. What are clouds mostly made of?
- a. smoke
 - b. water
 - c. both a and b
 - d. none of the above
33. What word best completes the following sentence?
Ocean currents affect climates because they transfer _____ from one part of the world to another.
- a. salt
 - b. sunlight
 - c. heat

