Science Concepts

Fill in the letter of the choice that best answers the question.

9. Deanna measured the temperature and humidity every afternoon for four days. She recorded the results in this table.

Day	Temperature (°C)	Relative Humidity (%)
Monday	28 (82 °F)	90
Tuesday	27 (81 °F)	79
Wednesday	24 (75 °F)	70
Thursday	28 (82 °F)	69

Which day could Deanna conclude was hottest and **most** humid?

(A) Monday (C) Wednesday
(B) Tuesday (D) Thursday

10. Carl reads the weather forecast on the Internet. It says that a cool, wet air mass is moving toward the town where he lives. What type of weather should Carl expect?

(A) cool temperatures, sun, and clear skies
(B) warm temperatures, sun, and clear skies
(C) warm temperatures, sun, and decreasing cloudiness
(D) cool temperatures, increasing cloudiness, and precipitation

11. Oceans get fresh water from precipitation and rivers. However, ocean water levels do not change very much as a result. Why are these levels not greatly affected?

(A) Water is constantly seeping into the ocean floor.
(B) Water is constantly evaporating over the ocean's surface.
(C) Water is constantly flowing back into rivers from the oceans.
(D) Water is constantly deposited back on land by ocean wave action.

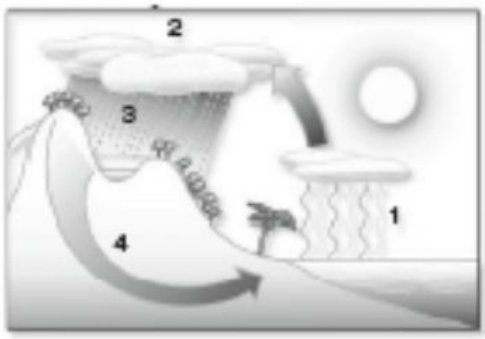
12. Which of the following sequences shows how water may move from an ocean to land and back to an ocean?

(A) precipitation → runoff → cloud formation → groundwater
(B) evaporation → cloud formation → precipitation → runoff
(C) groundwater → cloud formation → precipitation → runoff
(D) cloud formation → precipitation → evaporation → runoff

13. Scientists study many factors that help them predict weather. Which factor **most** directly affects the movement of air?

(A) humidity (C) precipitation
(B) air pressure (D) temperature

14. This diagram shows the water cycle.



At which point in the cycle does precipitation take place?

(A) 1 (C) 3
(B) 2 (D) 4

15. Sarah looks at a barometer to record a reading. What is Sarah measuring?

(A) air pressure (C) precipitation
(B) humidity (D) temperature