

Name: _____ Date: _____

Answer Key: Why is the Salty Sea Moving? 1st Grade Water Secrets Quiz

Evaluate how ocean salt and temperature drive the water cycle through challenging scenarios involving cloud formation and current movement.

1. If you put a toy boat in a warm ocean current and a cold ocean current, why might they move to different places?

Answer: A) Warm and cold water move in different directions like giant underwater rivers.

Ocean currents are like rivers that move water around the world based on how warm or salty the water is.

2. Imagine the sun is hiding behind big clouds all day. The process of _____ will happen much slower because there is less heat to turn liquid water into vapor.

Answer: B) Evaporation

Evaporation requires heat from the sun to turn water into invisible gas (vapor).

3. If all the clouds in the sky suddenly disappeared and never came back, the water cycle would stop because there would be no precipitation (rain).

Answer: A) True

The water cycle is a circle; without clouds forming and dropping rain, the water cannot move back down to the Earth's surface.

4. Why does rain water taste fresh even though it mostly evaporates from the salty ocean?

Answer: C) When water turns into gas, it leaves the heavy salt behind in the ocean.

During evaporation, only the water molecules rise into the air, leaving solids like salt behind in the sea.

5. A scientist finds very salty water at the bottom of the ocean. This water sank because salty water is _____ than fresh water.

Answer: B) Heavier

Salt adds mass to water, making it more dense (heavier), which causes it to sink below fresher water.

6. Water vapor turning into liquid water to form a cloud is called condensation.

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Answer: A) True

Condensation happens when water vapor cools down and bunches together to form visible droplets in clouds.

7. What would happen to the ocean if the sun stopped shining for a long time?

Answer: B) Less water would evaporate, so there would be fewer clouds and less rain.

The sun is the engine of the water cycle; without its heat, evaporation stops, which prevents clouds from forming.

8. When rain falls on a mountain and flows down into a river, we call this _____.

Answer: B) Runoff

Runoff is the movement of land water, usually from precipitation, towards the ocean.

9. How does the ocean help plants living in a rainforest far away?

Answer: B) The ocean water provides the vapor that eventually becomes rain for the forest.

Most of the world's evaporation happens over the ocean, creating the clouds that bring rain to land.

10. The water you drink today could be the same water that a dinosaur splashed in millions of years ago.

Answer: A) True

Earth's water cycle is a closed system, meaning the same water is recycled over and over again for billions of years.