

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

## Moana's Ocean Science: Salinity and Evaporation Quest for 2nd Grade

Analyzing salt concentrations, heat energy, and vapor transformation. A challenging summative assessment measuring cause-and-effect within the global water cycle.

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**1. Imagine you have two bowls of ocean water. You leave one in a dark closet and one in the hot sun. Why does the water in the sun disappear faster?**

- A. Sunlight adds energy that turns liquid water into invisible gas.
- B. The sun drinks the water through a straw in the sky.
- C. Ocean water can only stay liquid when it is dark.
- D. The wind pushes the water back down into the ground.

**2. True or False: If all the clouds in the sky disappeared and never came back, the ocean would eventually run out of water.**

- A. True
- B. False

**3. When salt stays behind in the ocean while the water turns into vapor, the remaining ocean water becomes \_\_\_\_\_.**

- A. Felt
- B. Saltier
- C. Sweeter
- D. Frozen

**4. A scientist finds a puddle of salt on a rock near the beach. Which sequence most likely happened to create this?**

- A. Precipitation followed by freezing
- B. Rain falling from a salty cloud
- C. A wave splashed, then the water evaporated
- D. Runoff carried the salt into a deep cave

**5. True or False: Deep ocean currents can be caused by very cold, salty water sinking to the bottom because it is heavier.**

- A. True
- B. False

**6. Dust and smoke in the air help water vapor turn back into liquid drops. This stage is called \_\_\_\_\_.**

- A. Collection
- B. Condensation
- C. Navigation
- D. Exploration

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**7. Why is the water cycle like a giant recycling machine for the Earth?**

- A. Because it makes new water from the moon every night.
- B. Because the same water has been moving around for millions of years.
- C. Because it cleans the ocean by throwing trash into space.
- D. Because it only rains when the ground gets too dusty.

**8. True or False: Most of the rain that falls on land originally evaporated from the salty ocean.**

- A. True
- B. False

**9. If a river flows from a mountain into the ocean, it is carrying \_\_\_\_\_ down to the sea.**

- A. Moonlight
- B. Freshwater
- C. Saltwater
- D. Clouds

**10. Which of these would cause a big change in the ocean's 'conveyor belt' of moving water?**

- A. A whale splashing in the water
- B. A boat crossing from New York to London
- C. A large amount of ice melting and adding fresh water
- D. The sand moving on one small beach