

Hydrosphere Pre-Test

Directions: *Work with your table partners to answer the following questions. Do not use any resources other than your brain! The purpose of this activity is to give you an opportunity to track your growth in understanding the topics taught during this unit.*

Remember: *This pre-test is just to see what you know. It's OK to be incorrect!*

1. Oceans

- a. How many oceans are there? _____
- b. What are their names? _____
- c. Which ocean is the largest? _____
- d. Which ocean is the smallest? _____
- e. Which ocean is the warmest? _____
- f. Which ocean is the coldest? _____
- g. How much of the earth's surface is covered by water (percentage)? _____
- h. Are any of the oceans getting larger? Are any getting smaller? EXPLAIN

2. Seasons

- a. Why is the equator warmer than the poles (both atmosphere and water temperatures)?

- b. What season is it currently? _____
- c. When will this current season end? _____
- d. What season is it currently in Australia? _____

3. Ocean water

- a. Why do you think the oceans are salty?

- b. Are some areas of oceans more salty than others? Why or why not?

- c. Do you think water can ever move from one ocean to another? Explain.

- d. What happens to water temperature the deeper you go? What other properties might change with depth as well?

- e. Does ocean water from deep below ever make it back to the surface (or vice versa)? Explain.

4. Ocean topography

Where are the deepest parts of the oceans?

5. Sediments

a. What kind of sediments do you think tend to pile up on the ocean floor over time?

b. What type of rock makes up the actual sea floor (below the sediments)?

6. Ocean Life

a. Where do we find the most diversity of life in the oceans? Would this location be in shallow or deep water?

b. What is the most bizarre ocean creature you can think of? What makes it so strange?