

## Physical Earth Science Semester 2 Final Review –Key

1. The energy that drives surface ocean currents comes from \_\_\_\_\_. **WIND**
2. The rising of cold water from deeper layers to replace warmer surface water is called \_\_\_\_\_. **UPWELLING**
3. What phenomena associated with upwelling? **INCREASED NUTRIENTS, INCREASED PLANKTON POPULATION, VERTICAL WATER MOVEMENTS**
4. What processes do NOT decrease the salinity of water? **FORMATION OF SEA ICE AND EVAPORATION**
5. According to the conveyor belt model of ocean circulation, what happens when water reaches the poles? **THE SALINITY OF WATER INCREASES**
6. What is the most abundant gas in the atmosphere? **NITROGEN**
7. What is air? **IT'S A MIXTURE**
8. The form of oxygen that combines three oxygen atoms into each molecule is called \_\_\_\_\_. **OZONE**
9. What is the lowest layer of the atmosphere? **TROPOSPHERE**
10. Most important weather phenomena occur in which layer of the atmosphere? **TROPOSPHERE**
11. A metal spoon becomes hot after being left in a pan of boiling water. This is an example of \_\_\_\_\_. **CONDUCTION**
12. The heating of the lower layer of the atmosphere from radiation absorbed by certain heat-absorbing gases is called **THE GREENHOUSE EFFECT**
13. Earth receives energy from the sun through what method of heat transfer? **RADIATION**
14. The two most important heat-absorbing gases in the lower atmosphere are **WATER VAPOR & CARBON DIOXIDE**
15. In general, what is true about places at higher altitudes? **COOLER TEMPS THAN LOWER ALTITUDES**
16. What happens to the temperatures of a city located along a windward coast in the winter and the summer? **COOLER SUMMER TEMPERATURES THAN AN INLAND LOCATION AT THE SAME LATITUDE**
17. Who's your favorite science teacher?
18. Isotherms are lines that connect points of equal \_\_\_\_\_. **TEMPERATURE**
19. Rain, snow, sleet, and hail are all examples of \_\_\_\_\_. **PRECIPITATION**
20. What term describes the conversion of a solid directly to a gas, without passing through the liquid state? **SUBLIMATION**
21. The process of converting a liquid to a gas is known as \_\_\_\_\_. **EVAPORATION**
22. Air that has reached its water-vapor capacity is said to be \_\_\_\_\_. **SATURATED**
23. What is true about warm, saturated air? **CONTAINS MORE WATER VAPOR THAN COLD AIR**
24. The ratio of air's water-vapor content to its capacity to hold water vapor at that same temperature is the \_\_\_\_\_. **RELATIVE HUMIDITY**
25. The force exerted by the weight of the air above is called \_\_\_\_\_. **AIR PRESSURE**
26. What is the ultimate energy source for most wind? **SOLAR RADIATION**
27. Which force generates winds? **PRESSURE DIFFERENCES**
28. Closely spaced isobars indicate \_\_\_\_\_. **HIGH WINDS**
29. Variations in air pressure from place to place are the principal cause of \_\_\_\_\_. **WIND**
30. High-altitude, high-velocity "rivers" of air are called \_\_\_\_\_. **JET STREAMS**
31. The Coriolis effect influences \_\_\_\_\_. **WIND DIRECTION**
32. Centers of low pressure are called \_\_\_\_\_. **CYCLONES**
33. Air subsides in the center of a(n) \_\_\_\_\_. **HIGH-PRESSURE SYSTEM**
34. High-pressure systems are usually associated with what type of weather? **CLEAR, DRY WEATHER**
35. How do low pressure systems move across the United States? **WEST TO EAST**
36. What surface winds blow between the subtropical high and the equator? **TRADE WINDS**
37. When is a sea breeze most intense? **MID TO LATE AFTERNOON**
38. How are winds labeled? **BY THE DIRECTION FROM WHICH THEY BLOW**
39. What is a warm countercurrent that periodically flows southward along the coasts of Ecuador and Peru? **El Nino**
40. An immense body of air characterized by similar properties at any given altitude is known as a(n) \_\_\_\_\_. **AIR MASS**
41. Maritime air masses form \_\_\_\_\_. **OVER WATER**
42. On a weather map, which type of front is shown by a line with triangular points on one side? **COLD FRONT**
43. On a weather map, which type of front is shown by a line with semicircles extending from one side? **WARM FRONT**
44. Which region is located between 23.5° north and south of the equator? **TROPICAL ZONE**
45. The rain shadow effect is associated with \_\_\_\_\_. **MOUNTAINS**
46. The leeward side of a mountain is often \_\_\_\_\_. **DRY**

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**Clive Long**



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