NAME: _____

Unit Concept Matching

Directions: *Match each of the statements to the right with the correct term or concept on the left. Some terms/concepts can be labeled more than once.*

Convection _____

Leeward _____

Shadows _____

Coriolis Effect _____

Conduction _____

California Current _____

Insolation _____

Specific Heat _____

Infrared Radiation _____

Duration of Insolation _____

Dark, Rough Surfaces _____

Properties of Water Chart _____

Summer Solstice _____

Evapotranspiration _____

Seasons _____

Angle of Insolation _____

Gulf Stream _____

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Land Surfaces _____

Water _____

Greenhouse Gases _____

Light, Smooth Surfaces _____

Land Breeze/Sea Breeze _____

Humid Climate _____

Equinox _____

Winter Solstice _____

Dry Climate _____

Radiation _____

Windward _____

23.5° _____

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South Westerlies _____

1. Has a high specific heat.
2. Vertical ray of insolation on the Tropic of Capricorn (23.5°S).
3. Carbon dioxide, methane, water vapor.
4. Side of the mountain away from the wind.
5. Changes temperature quickly.
6. Climate at 0° and 60° N+S
7. Planetary wind and moisture belts.
8. Surface ocean currents.
9. Ocean current flowing NE making Europe warmer and more humid.
10. Climate at 30° N+S and 90° N+S
11. September 23rd/March 21st - first day of fall/spring.
12. Changes temperature slowly.
13. Tilt of Earth's axis.
14. Vertical ray of insolation on the Tropic of Cancer (23.5°N).
15. Shows the energy gained or released during a phase change of water.
16. Day with the highest angle and longest duration of insolation.
17. Daily wind changes on a shoreline due to land heating up and cooling down faster than water.
18. How high the Sun is in the sky.
19. Combination of evaporation and transpiration. Puts energy and water into Earth's atmosphere.
20. Day with the lowest angle and shortest duration of insolation.
21. Length of daylight. Longest on the Summer Solstice.
22. Caused by Earth's rotation.
23. Heat energy transfer in and between solids.
24. Prevailing global wind belt for NYS and much of the USA.
25. Incoming solar radiation mostly in the form of visible light.
26. Has a low specific heat.
27. Best reflector of insolation.
28. Will be drier and warmer.
29. Points north in NYS at solar noon.
30. Ocean current flowing SE bringing cold water to the west coast of the USA.
31. Will be cooler with a lot of precipitation.
32. Moderates climate temperature of nearby land.
33. Heat energy transfer by electromagnetic waves. Goes through empty space.
34. Short wavelength radiation.
35. Best absorber of insolation.
36. December 21st - first day of winter.
37. Side of the mountain facing the wind.
38. Block infrared radiation from escaping Earth's atmosphere causing warming.
39. 12 hours of daylight/12 hours of darkness.
40. Heat energy transfer by movement of a fluid (air/water)… circles with arrows!
41. The heat energy needed to change the temperature of a substance.
42. June 21st - first day of summer.
43. Energy re-radiated by Earth after insolation is absorbed.
44. Vertical ray of insolation on the Equator.
45. Long wavelength radiation.
46. Caused by the Earth's tilt and revolution.
47. Shorter when Sun is higher in the sky.