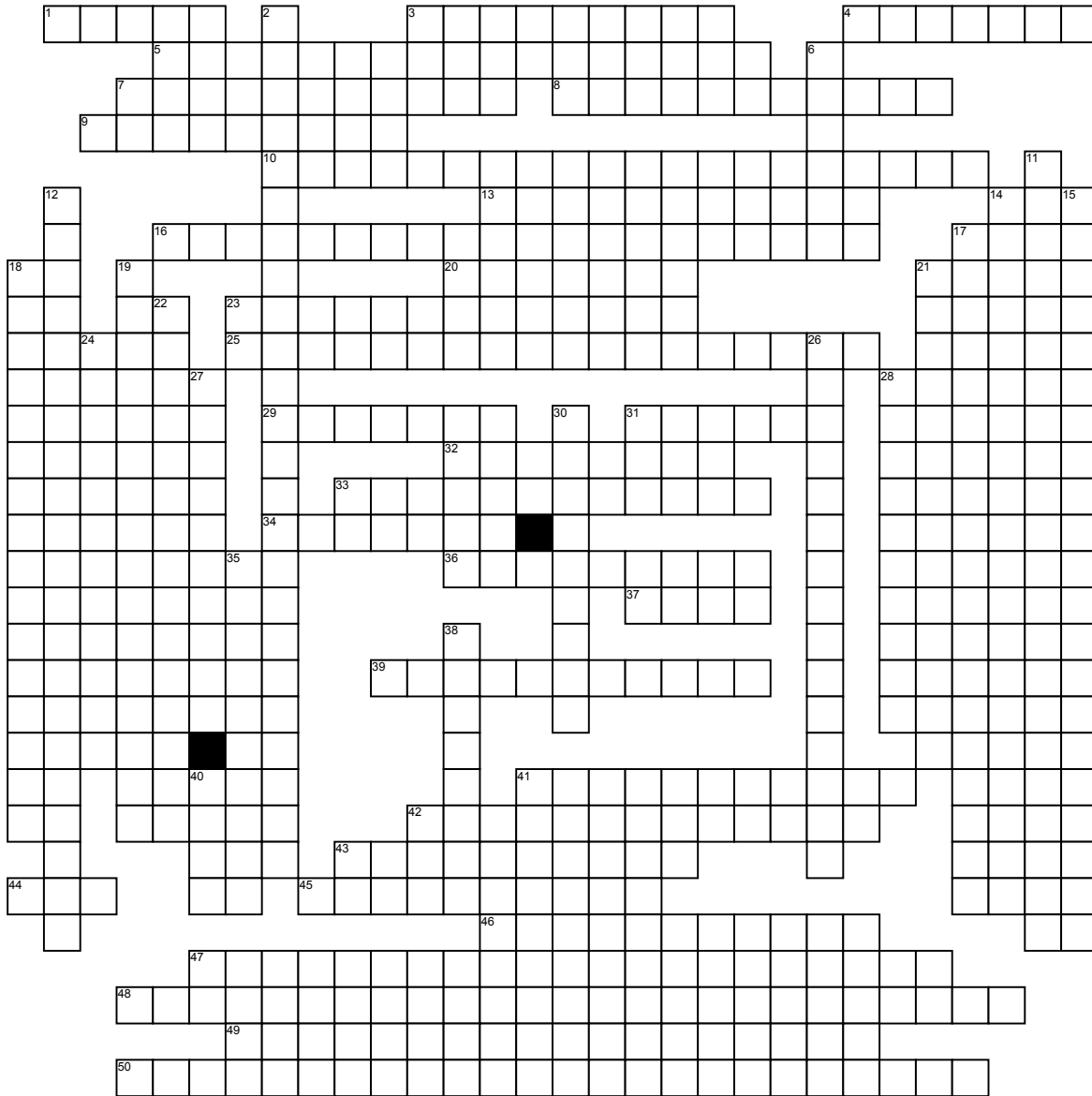


Name: _____

Date: _____

Period: _____

Atmosphere Vocab



Across

1. a visible mass of droplets or little drops of water or frozen crystals suspended in the atmosphere above the surface of the earth or another planetary body
3. a strong downward current of air
4. area of low pressure in the atmosphere that displays circular inward movement of air
5. currents in air and water that are induced by temperature differential
7. the occurrence of two or more things coming together;
8. the interdisciplinary scientific study of the atmosphere that focuses on weather processes and forecasting
9. quick-flowing air currents found in the atmosphere, mainly near the tropopause
10. the process by which small particles in the atmosphere are diffused
13. the fraction of incident electromagnetic radiation reflected by a surface, especially of a celestial body
16. that portion of the radiant energy received at the actinometer direct from the sun
20. the downwind area of a slope
23. a 1970's-1980's project funded by a number of universities to collect sediment and fossils from the sea floor to record temperatures of the sea surface
25. tiny particles on which droplets of water vapor can collect
29. related to, caused by, or carried by the wind
31. a line on a weather map connecting points of equal atmospheric pressure
32. relating to or using basic units of length, time, mass, and charge.
33. a local atmospheric zone where the climate differs from the surrounding area
34. an imaginary line that goes around the earth
36. the transmission of light through a translucent material
37. to become less or lower in or on something
39. an absolute scale used to measure temperature
41. liquid turning into gas in reference to water vapor
42. occurs twice a year, when the tilt of the earth's axis is inclined neither away nor towards the sun
43. wind blowing from the land to the sea
44. in most circumstances atmospheric pressure is closely approximated by the hydro static pressure caused by the weight of air above the measurement point.
45. encircling or enveloping environment; surrounding air
46. the study of climate
47. time period from 900-1200 AD
48. rain or hail that is generated when a heated surface causes the air above it to warm, expand, and rise
49. describes the collective effects of changes in the earth's in the earth's movements upon its climate
50. formation of precipitation due to convergence of 2 air masses
12. the process whereby most of the UV rays, X-rays, and infrared rays are transferred to the constituents of the atmosphere
14. a condition occurring when a cool layer of air gets trapped below a layer of warm air and is unable to rise
15. a surface of discontinuity turns back a portion of the incident radiation into the medium through which the radiation approached
17. the measure of the mass per unit area of air
18. the quantity of water in a particular volume of air
19. redirection of earth long wave radiation back to surface because of greenhouse effect
21. apparent deflection of body in motion with respect to earth
22. the layer immediately above the troposphere that has approximately the same temperature all around and through
24. the period of time between to successive transits of the mean sun
26. act of revolving
27. the whole mass of air surrounding the earth
28. a pascal in an internationally recognized unit used by the atmospheric environment service for measuring atmospheric pressure
30. leading edge of cooler mass of air, replacing (at ground level) warmer mass of air
35. the layer of the earth's atmosphere that is directly above the stratosphere and directly below the thermosphere
38. height above sea level
40. a miniature whirlpool or whirlwind resulting when the current of a fluid doubles back on itself

Down

2. an average of the temperature of the troposphere that goes through glacial and interglacial periods
6. ability of a surface to reflect water
11. environmental lapse rate is the average rate at which temperature declines with increasing altitude in the troposphere