

Across

3. The process of reducing heat through a change in air pressure caused by volume expansion
6. Solar radiation received at the earth's surface.
8. The conversion of water vapor state to a denser state as a liquid (water) or a solid (ice).
12. The degree of wetness in the atmosphere
13. A line drawn on a weather map or chart that connects points at which the barometric pressure is the same.
14. A pattern of meteorological symbols that represents the weather at a particular station and that is recorded on a weather map.
16. The curving of a path of a moving object from an otherwise straight path due to the Earth's rotation
17. The region between the stratosphere and the thermosphere
19. The region of the upper atmosphere in which temperature increases continuously with altitude, encompassing essentially the entire atmosphere above the mesosphere.
20. An instrument for determining the pressure of the atmosphere.

Down

1. A scientist who studies weather (meteorology).
2. The swift, warm current that flows along the east coast of the United States and carries warm, tropical water northward
4. Starts at the Earth's surface and extends 15 km (9 miles) high. It is the most dense and the temperature drops from about 17 to -52 degrees Celsius. This is the layer where weather occurs.
5. separates the troposphere from the next layer – temperature remains steady
7. Stream of narrow bands of high speed wind that blow in the upper troposphere and lower stratosphere.
9. a weather event in which the air sinks and flows outward from a center of high pressure and that brings dry weather
10. The outermost region of the atmosphere
11. The region of the upper atmosphere extending upward from the troposphere to about 30 miles (50 km)
15. A large body of air throughout which temperature and moisture content are similar
18. A front that occurs when a cold air mass overtakes a warm air mass and lifts the warm air mass off the ground and over another air mass
21. Separates the mesosphere from the next layer

Earth Systems Unit 8 Vocabulary

