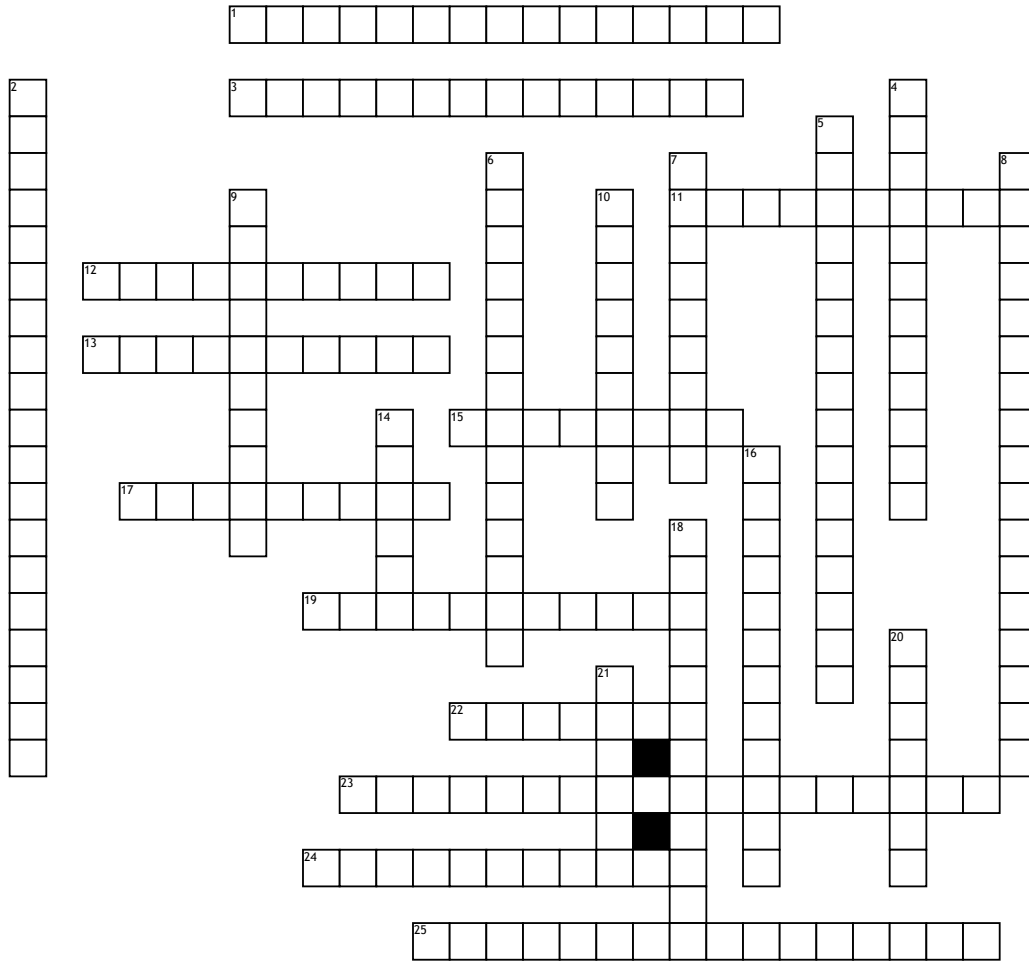


Atmosphere



Across

- 1. A boundary between air masses that don't move possibly causing rain for several days
- 3. if warm and cool air collide, the warm air will be forced up
- 11. the concentration of ozone in the stratosphere; protects Earth from harmful ultraviolet rays
- 12. the abnormal rise of the sea along a shore as a result of strong winds
- 13. 50 to 80 km, most meteorites burn up here
- 15. the temperature at which the water vapor in the air becomes saturated and condensation begins
- 17. a large, powerful windstorm that forms over warm ocean waters
- 19. the layer closest to Earth, where almost all weather occurs; the thinnest layer
- 22. a powerful funnel-shaped column of spiraling air

- 23. A hurricane intensity scale that relates hurricane damage to wind speeds and central air pressures.
 - 24. Used to classify a tornado based on wind speed and damage
 - 25. a percentage of the maximum amount of water vapor the air can hold at its current temperature
- Down**
- 2. air passing over warm surfaces gains buoyancy
 - 4. 12 to 50 km, Ozone held here, absorbs UV radiation
 - 5. global warming caused by the buildup of carbon dioxide in the atmosphere
 - 6. the largest source of human caused pollution in the United States
 - 7. A front where cold air moves in under a warm air mass.
 - 8. cloud formation that occurs when warm moist air is forced to rise up the side of a mountain

- 9. the mass of air surrounding the Earth
- 10. A front where warm air moves over cold air
- 14. weather phenomenon caused when warm water from the western Pacific Ocean flows eastward; milder winter temperatures and less snow than usual
- 16. a usually brief, heavy storm that consists of rain, strong winds, lightning, and thunder
- 18. the uppermost layer of the atmosphere; very thin and very hot air
- 20. a body of air with horizontally uniform temperature, humidity, and pressure.
- 21. an irregularly recurring upwelling of unusually cold water to the ocean surface along the western coast of South America that often occurs following an El Niño; winter temperatures that are warmer than normal in the Southeast and cooler than normal in the Northwest

Word Bank

- | | | | | |
|----------------------|----------------------|-----------------|--------------------|--------------|
| Saffir-Simpson Scale | Relative Humidity | el niño | Thunderstorm | Tornado |
| Greenhouse Effect | Troposphere | Frontal Lifting | orographic lifting | Stratosphere |
| Thermosphere | Dew Point | Fujita Scale | Stationary Front | Hurricane |
| Cold Front | la niña | Ozone Layer | Storm Surge | Atmosphere |
| Air Mass | Convictional Lifting | Vehicle Exhaust | Mesosphere | Warm Front |