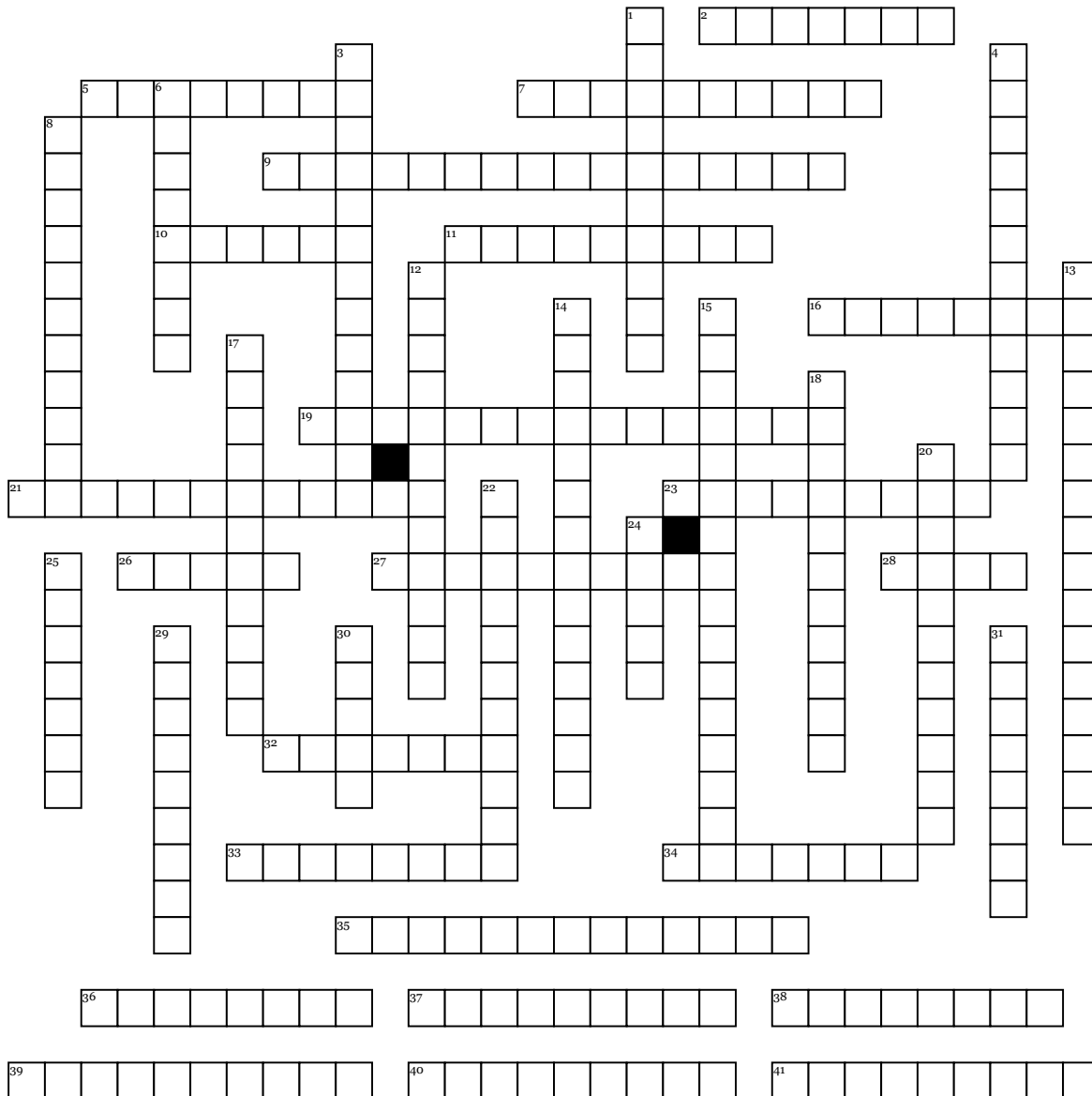


Chapter 3 & 4 Vocabulary



Across

2. The ratio of the mass of a substance to its volume
 5. Elevation above sea level
 7. The continual movement of water among Earth's atmosphere, oceans, and land surface through evaporation, condensation, and precipitation
 9. An instrument that measures changes in air pressure without using a liquid
 10. A line on a weather map that joins places that have the same air pressure
 11. An instrument used to measure changes in air pressure
 16. Moving away temporarily from an area about to be affected by severe weather
 19. A measure of cooling combining temperature and wind speed
 21. An instrument used to measure relative humidity
 23. A sudden spark, or energy discharge, caused when electrical charges jump between parts of a cloud, between nearby clouds, or between a cloud and the ground
 26. A cold air mass that forms north 50 degrees north latitude or south 50 degrees south latitude and has high air pressure
 27. A "dome" of water that sweeps across the coast where a hurricane lands
 28. The horizontal movement of air from an area of high pressure to an area of lower pressure

32. A huge body of air that has similar temperature, humidity, and air pressure
 33. The distance in degrees north or south of the equator
 34. A swirling center of low air pressure
 35. A deposit on the earth of hail, mist, rain, sleet, or snow;
 36. A line on a weather map that joins places that have the same temperature
 37. A humid air mass that forms over oceans
 38. Cut off, as in a front where a warm air mass is caught between two cooler air masses
 39. Winds that blow over short distances
 40. Bands of high-speed winds about 10 kilometers above Earth's surface
 41. The flow of cooler air from over an ocean or lake toward land

Down

1. An instrument used to measure wind speed
 3. Scientist who study the causes of weather and try to predict it
 4. The change of state from a gas to a liquid
 6. The area near the equator between about 23.5 degrees north latitude and 23.5 degrees south latitude
 8. Winds that blow steadily from specific directions over long distances

12. A small storm often accompanied by heavy precipitation and frequent thunder and lightning
 13. An instrument that measures changes in air pressure, consisting of a glass tube partially filled with mercury, with its open end resting in a dish of mercury
 14. The effect of Earth's rotation on the direction of winds and currents
 15. The percent of water vapor in the air compared to maximum amount of water vapor that air can contain at a particular temperature
 17. The process by which molecules at the surface of a liquid absorb enough energy to change to a gas
 18. A dry air mass that forms over land
 20. A high-pressure center of dry air
 22. The pressure caused by the weight of a column of air pushing down on an area
 24. The boundary where unlike air masses meet but do not mix
 25. A rapidly spinning column of air that reaches down to touch Earth's surface
 29. A tropical storm that has winds of about 119 kilometers per hour or higher
 30. A violent disturbance in the atmosphere
 31. The amount of water vapor in a given volume of air