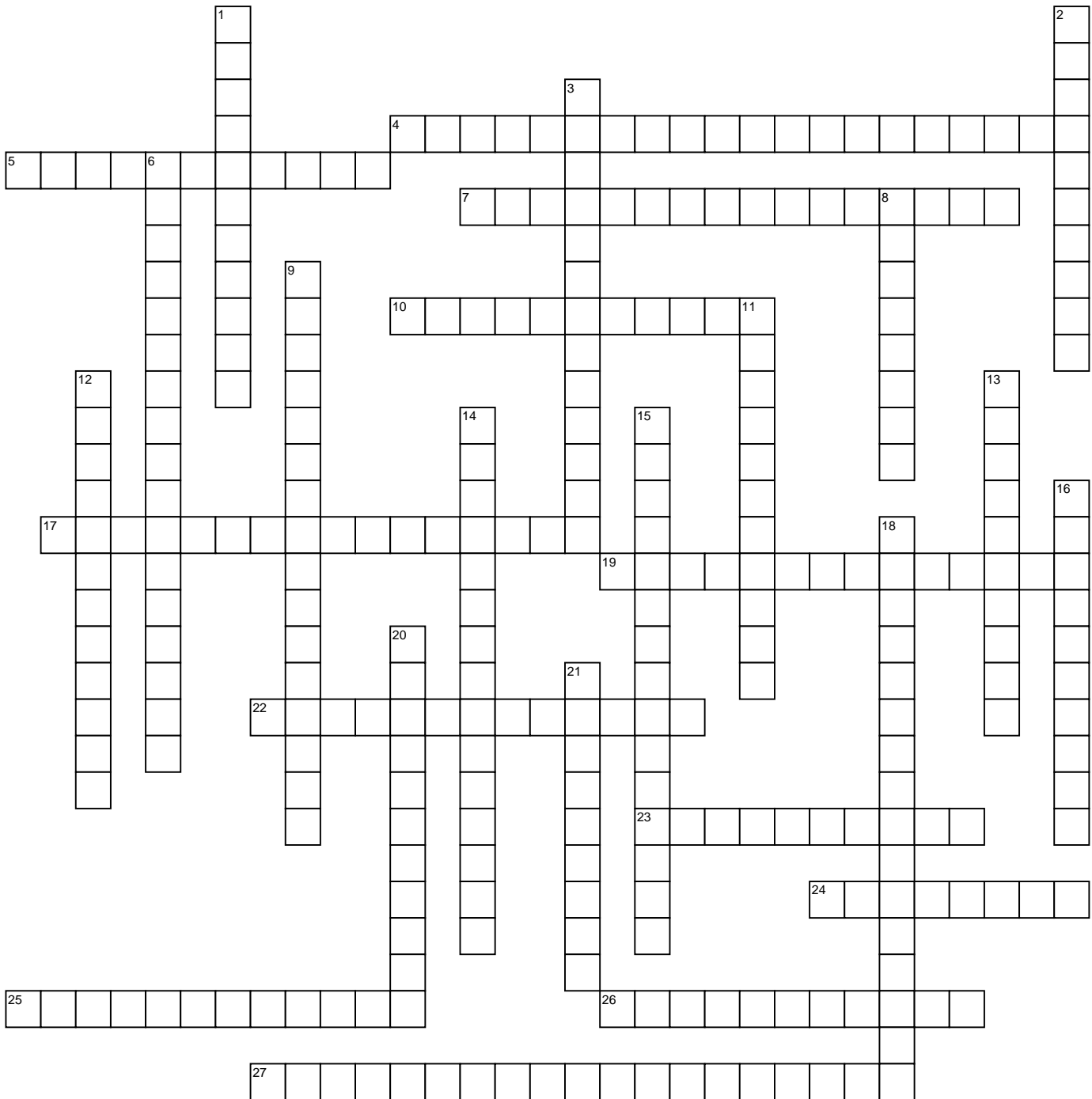


# Roland-Story Meteorology Class

## Chapter 4 -- Moisture and Atmospheric Stability



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### ACROSS

- 4 the cooling or warming of air caused when it is allowed to expand or contract and no heat is added or removed
- 5 a phenomenon of the atmosphere
- 7 is the quantity of water in a particular volume of air
- 10 the approach toward a definite value
- 17 the rate of adiabatic temperature change in saturated air
- 19 the lifting of air resulting when cool air is forced from a low elevation to a higher elevation as it moves over rising terrain
- 22 is the evaporation of water from plants
- 23 type of lifting that occurs when an air mass is forced from a low elevation to a higher elevation as it moves over rising terrain
- 24 is the amount of water vapor in the air
- 25 instrument on a sling used to measure humidity in the air
- 26 the change from solid to gas, while at no time becoming a liquid.
- 27 the condition of air that has an environmental lapse rate that is greater than the dry adiabatic lapse rate
- 1 the mass or water vapor in a unit mass of air
- 2 air that resists vertical displacement
- 3 is the pressure of a vapor in equilibrium with its non-vapor phases
- 6 the condition of air that has an environmental lapse rate that is less than the wet adiabatic lapse rate
- 8 is the temperature to which a given parcel of air must be cooled, at constant barometric pressure, for water vapor to condense into liquid
- 9 the rate of adiabatic cooling or warming in unsaturated air
- 10 by the process by which molecules in a solid state become gaseous
- 11 is the change of the physical state of aggregation of matter from gaseous phase into liquid phase
- 12 the process of gas transformation into solid
- 14 the continuous movement of water on, above, and below the surface of the Earth
- 15 is the temperature to which a given parcel of air must be cooled, at constant barometric pressure, for water vapor to condense into liquid
- 16 instruments used for measuring humidity
- 18 is a term used to describe the amount of water vapor that exists in a gaseous mixture of air and water.
- 20 air that does not resist vertical displacement
- 21 air that resists vertical displacement

### DOWN