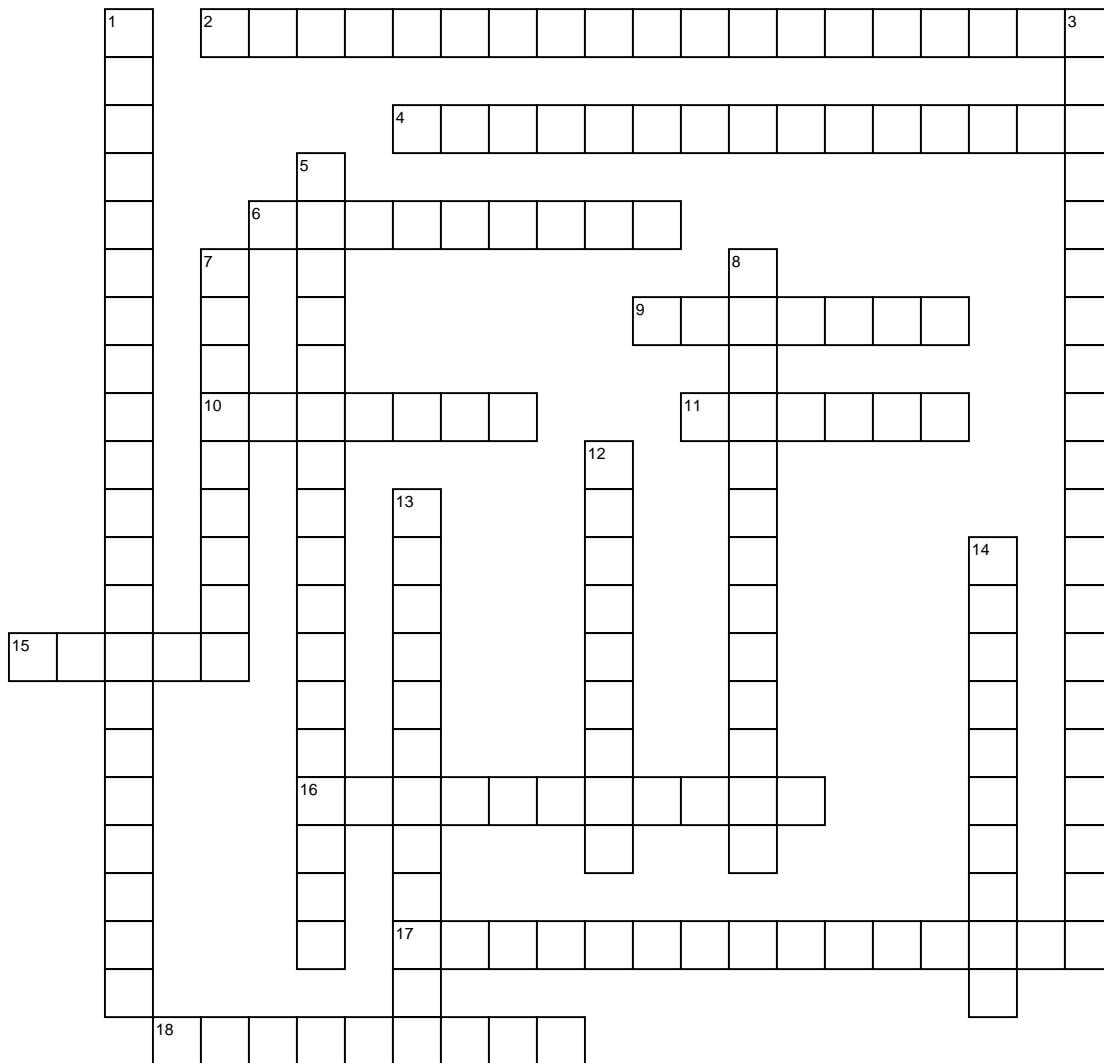


# Roland-Story Meteorology Class

## Chapter 9 -- Weather Patterns



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### ACROSS

- 2** group of cyclones that occur in the middle latitudes and have neither tropical nor polar characteristics
- 4** is a boundary between two different air masses, neither of which is strong enough to replace the other
- 6** the amount of "circulation" or "rotation" in a fluid
- 9** an area of low atmospheric pressure characterized by inward spiralling winds that rotates
- 10** a narrow zone in the atmosphere along which there is an abrupt change in moisture
- 11** large scale patterns in the atmospheric pressure field that are nearly stationary
- 15** is a boundary separating two masses of air of different densities
- 16** warm air gliding up a retreating cold air mass
- 17** the divergence of air aloft that results from the variations in velocity along the jet stream
- 18** the complex frontal structure formed when a cold front overtakes a warm front

### DOWN

- 1** The older of the models of extratropical cyclone development outside the tropics or a middle level cyclone
- 3** a modern view of cyclogenesis
- 5** the leading edge of a cooler and drier mass of air
- 7** is formed during the process of cyclogenesis when a cold front overtakes a warm front
- 8** the leading edge of an advancing mass of warm air; it separates warm air from the colder air ahead
- 12** the development or strengthening of cyclonic circulation in the atmosphere
- 13** a theory in which the polar front separates polar and tropical fronts gives rise to cyclones