

## Study Guide for Weather Patterns Test

### Section 1: Atmospheric Pressure and Wind

Know:

- + The definition of air pressure.
- + The factors that affect air pressure (i.e., density, temperature, humidity, elevation).
- + The air circulation around high and low pressure centers.
- + The weather associated with highs and lows.
- + The cause of winds.
- + The direction the Coriolis Force causes winds to deflect (turn) in the Northern Hemisphere.
- + How winds can be interpreted by isobars on a weather map.

\*\*\*THERE WILL BE AN ISOBAR MAP ON THE TEST\*\*\*

### Section 2: Air Masses and Fronts

Know:

- + The definition of an air mass and the meaning of a source region.
- + How air masses are classified.
- + The terms used to describe the characteristics of air masses (e.g., Polar, maritime).
- + How to identify the four basic types of air masses in the U.S.
- + The definition of a front.
- + What a cold front is, its map symbol, the shape of its slope, and the weather associated with it.
- + What a warm front is, its map symbol, the shape of its slope, and the weather associated with it.
- + What a stationary and occluded front are and their map symbols.
- + How to locate a cold and warm front on a weather map.

\*\*\*THERE WILL BE A FRONT LOCATION MAP ON THE TEST\*\*\*

### Section 3: Severe Weather

Know:

- + The stages (life cycle) of thunderstorm formation.
- + The different hazards associated with thunderstorms.
- + The definition of a stepped leader and streamer.
- + The difference between a severe thunderstorm watch and warning.
- + The difference between a tornado and funnel cloud.
- + When tornado season occurs for the U.S.
- + How the Fujita scale is used to classify tornadoes.
- + The difference between a tornado watch and tornado warning.
- + The basic structure of a hurricane (i.e., eye and eyewall).
- + How the Saffir-Simpson scale is used to classify hurricanes.
- + When a storm is assigned a name and the how storms are named.
- + Reasons why hurricanes weaken.
- + What a storm surge is.

# Study Guide Weather Patterns

**California. State Department of  
Education**



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