

Air Pressure and Wind Video

Name: _____

Date: _____

1. What role does air pressure play in weather conditions?
 - A. Its force determines the strength of wind.
 - B. It creates downdrafts that blow from the shore.
 - C. It is the primary cause of Trade Winds.
 - D. It determines how high or low the tide is.

2. Which three elements affect air pressure?
 - A. wind, Earth's distance from the Moon, and clouds
 - B. amount of plants, wind, and level of water in the ocean
 - C. height above sea level, temperature, and amount of water vapor
 - D. temperature, wind, and how much plant or animal life is around

3. What is a convection cell?
 - A. extremely dense and heavy masses of air
 - B. a place on the beach where scientists watch weather
 - C. an instrument scientists use to measure wind speeds
 - D. a pattern of rising warm air and sinking cold air

4. Why does air rise over land at the beach?
 - A. Cold air gets warmer over land, which makes it lighter, so it rises.
 - B. Warm air over the sea moves inland, gets cooler, and then rises.
 - C. Trade winds around the Equator blow the air higher at the beach.
 - D. Land is cooler than water at the beach, so the air repels away from it.

5. Which best describes the Coriolis Effect?
 - A. As cool air warms up, it rises, and as warm air cools down, it sinks, creating a breeze.
 - B. As the Sun rises and sets, the path of the wind all over Earth changes directions.
 - C. As it spins on its axis, the Earth pulls the wind and causes it to blow in a curved path.
 - D. As the air pressure on the Earth's poles changes, the wind at the Equator becomes stronger.