

Monday

1. Which is **most** responsible for the uneven heating of the air in the atmosphere?
 - a. Radiation
 - b. Convection
 - c. Conduction
 - d. Condensation
2. Which **best** describes why winds at the beach change direction between day and night?
 - a. Because the temperatures over land and over water change
 - b. Because warm air over land sinks and stays in place over land
 - c. Because cool air rises and is replaced by warm air from the ocean
 - d. Because cool air sinks and stays in place over land
3. Which winds bring the US most of its weather systems?
 - a. Prevailing westerlies
 - b. Trade Winds
 - c. Polar Easterlies
 - d. Doldrums

Tuesday

1. Which will **most likely** result from a low-pressure weather system?
 - a. warm temperatures
 - b. cloudy conditions
 - c. clear conditions
 - d. cool temperatures
2. Which has the **greatest effect** on wind speed?
 - a. precipitation
 - b. cloud cover
 - c. wind direction
 - d. air pressure
3. If 10 grams of water are added to 5 grams of salt, **how much salt water will be made?**
 - a. 2 grams
 - b. 5 grams
 - c. 10 grams
 - d. 15 grams
4. What is the difference between a cold front and a warm front?

Wednesday

1. Which **best** describes a characteristic of the **jet stream**?
 - a. It forms a boundary between a cold air mass and a warm air mass.
 - b. It creates the high winds around the eye of a hurricane.
 - c. It forces the hot air along the equator to rise to areas in North America.
 - d. It causes high pressure air masses to rotate clockwise.
2. A sea breeze blows toward the land during the day causing the land to:
 - a. Become warmer
 - b. Become cooler
 - c. There is no change
3. Name three important differences between a high pressure system and a low pressure system:

High Pressure	Low Pressure

Thursday

1. A land breeze blows toward the sea at night, causing the sea to:
 - a. Become warmer
 - b. Become cooler
 - c. There is no change
2. The weather forecast indicates that a warm front moving into the area in the next 24 hours. **Which type of weather will most likely result?**
 - a. clear skies and cold temperature
 - b. clear skies and hot temperature
 - c. cloudy skies and rainy weather
 - d. heavy snow and ice
3. Which of the following represents a **chemical reaction**?
 - a. a sugar cube dissolving in water
 - b. ice cubes forming in a freezer
 - c. ice cream melting in a bowl
 - d. a cake baking in an oven

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