

Grade 7 Weather TEST OUTLINE SOLUTIONS

Name: _____

Matching or Multiple Choice

Atmosphere – is the layer of air that surrounds the Earth and has 5 layers.

Troposphere- lowest layer. Almost all weather is in this region and our oxygen.

Temperature- A measure of hotness or coldness.

Humidity- The amount of water vapor in the air.

Absolute Humidity- is a measure of how much water vapor the air **is able** to hold.

Relative Humidity - is the measure of how much water vapor is ACTUALLY in the air known as

Thermometer- A device to measure the air temperature.

Psychrometer- a device that measures humidity.

Barometer – a device that measures air pressure.

Rain Gage – a device that measure amount of precipitation.

Anemometer – a device that measures wind speed.

Wind Vane – a device that determines the wind direction.

Atmospheric Pressure (Air Pressure)- the air around you has weight, and it presses against everything it touches.

Wind- Moving air that is caused by the sun. The tilt of the earth causes uneven heating and makes air move.

Trade winds- are moderate, constant winds that blow toward the equator from the northeast or the southeast.

Local Winds- are the winds you feel daily in a certain area. Caused by the sun's unequal heating on land next to water. Mountains can affect the wind blowing (Blocks)

Clouds- are created when water vapor condenses and turns into liquid water droplets. These water droplets form on tiny particles, like dust and smoke, that are floating in the air.

Cold Front - When cool air replacing warm air masses. (Blue line with triangles on weather map)

Warm Front - Warm air replacing cool air masses. (Red line with semi-circles on weather map)

Precipitation- is rain, snow, sleet, or hail that falls to the ground.

Rain - water that falls from clouds

Sleet - when raindrops fall through the air when it is below freezing. As they fall the rain drop freezes into ice.
Size is less than 5mm

Freezing Rain- when raindrops fall through the air BUT does not freeze until it hits the ground.

Hail - is a round ice pellet of ice that is larger than 5mm.

Snow - when the water vapor in the cloud is directly converted into ice crystals.

Short Response

- 1) Explain the difference between weather and climate.

Weather is what is happening right now, and climate is what you typically expect the weather in a specific location to be like for this time of year.

- 2) Know the 3 conditions that can change air pressure.

a. **Water vapor, temperature and Altitude**

- 3) Know what type of weather is associated with low pressure. **STORMY Weather**

- 4) Know what type of weather is associated with high pressure. **Fair/Good weather.**