**What is weather?**

Weather refers to the state of the \_\_\_\_\_\_\_\_\_\_at a specific time and place.

\_\_\_\_\_\_\_\_\_\_\_\_\_ refers to the average weather over 30 years.

**What affects weather?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the measure of the average amount of motion in particles. When it is hot air particles are moving faster, and when it is cold they are moving slower.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a natural movement of air of any velocity; *especially* : the earth's air or the gas surrounding a planet in natural motion horizontally

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the amount of water vapor present in the air.

\_\_\_\_\_\_\_\_\_\_\_\_ are masses of small water droplets or tiny ice crystals that float in the air. Three main types are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Other clouds are a mixture of these three main types.

**Clouds**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cirro- means “curled” or “feathery”

Form highest in the sky; are made up of ice crystals; and appear as curls, tufts, or wisps. Usually signal the end of clear weather.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cumulo- means “heaped” or “piled”

Cottony clouds with flat, usually gray bases, and puffy, bright tops. Usually signal good weather, but if atmosphere is unstable, can build into towering clouds that produce showers and thunderstorms.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Strato- means “layer-like” or “sheet-like.”

Low-lying, dull-colored clouds that form in layers or sheets. Usually bring drizzling rain or light-falling snow.

**Precipitation**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is water that falls from the clouds. Air temperature determines the form of precipitation that falls

4 main types of Precipitation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Air Masses**

*A large body of air that has properties similar to the part of the Earth’s surface over which it develops.*

* Topical Maritime \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Tropical Continental \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Polar Maritime \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Polar Continental \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Artic Maritime \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a boundary between two air masses of different density, moisture, or temperature.**