Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Weather Prediction Notes**

**Weather is…**

The temporary conditions that surround the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Weather doesn’t just stay in one place…It \_\_\_\_\_\_\_\_\_\_\_\_\_ !

The main components of weather are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, atmospheric pressure, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, humidity, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and cloudiness.

**Air Mass**

A body of air which has the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ throughout.

**Air Pressure**

The pressure exerted on you by the \_\_\_\_\_\_\_\_\_\_\_\_ molecules surrounding you.

Air pressure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as you go higher in the atmosphere (remember the pyramid of cheerleaders).

Air pressure can differ between different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**High Pressure System**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Brings fair/clear weather and light winds

Marked by an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the map

**Low Pressure System**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Brings stormy weather and strong winds

Marked by an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the map

**Reading Air Pressure**

Air pressure is read on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - the units are in “inches of Mercury”

Normal Air pressure = at sea level, normal air pressure is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

High Pressure = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Low Pressure = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Winds**

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of air from one place to another.

Winds tend to blow from \_\_\_\_\_\_\_\_\_\_\_ pressure (cooler) to \_\_\_\_\_\_\_\_\_\_\_\_\_ pressure (warmer)

Jet stream – Winds in the upper troposphere which blow 80 – 140 mph. These help move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ around

**What is a front?**

A front is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between two different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

You can tell there is a front by looking for sharp changes in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, wind direction, air pressure, clouds or precipitation patterns.

**Warm Front**

When a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ air mass moves in and replaces a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ air mass.

Brings with it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ clouds and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cold Front**

When a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ air mass moves in and replaces a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ air mass

Brings with it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Temperature**

How hot or cold the air is

Temperature is related to how \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the air molecules are moving/how much energy they have.

**Humidity**

The amount of water vapor in the air.

Expressed as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 The percentage of the maximum amount of water the air can hold

 Relative humidity of \_\_\_\_\_\_\_\_\_\_\_\_\_ means the air cannot hold any more water

 Relative humidity of \_\_\_\_\_\_\_\_\_\_\_\_\_ means air is holding half of its total amount of water

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Clouds Notes**

**How are clouds formed?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ air rises

Moist air cools and the water vapor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into water droplets

**Three Types of Clouds**

There are three main types of clouds

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

All other clouds are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of these three

Adding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ before or after a cloud name means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (ex: nimbostratus, cumulonimbus)

**Cirrus**

Form in very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ altitudes

Made of ice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Usually seen in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weather

Means a change in the weather is coming!

**Stratus**

Uniform, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ clouds

Can produce steady, light \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Often associated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cumulus**

White, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ clouds

Appear in the daytime in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weather

If they keep growing taller, they can become \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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