

CHAPTER 2 NOTES

Humidity- _____

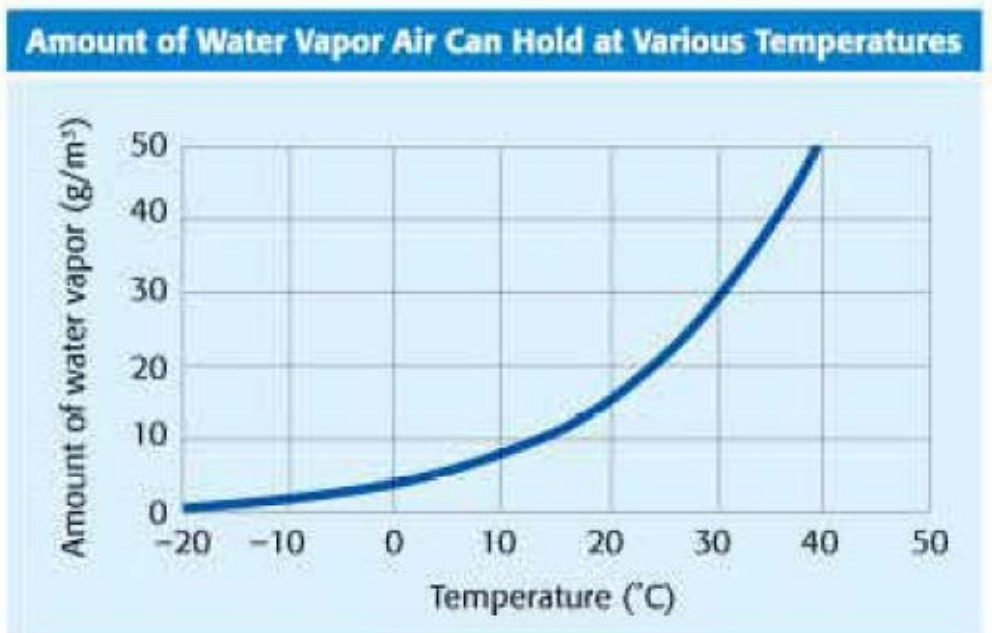
Relative humidity – _____

30deg & 15 g/m³
_____ % humidity

20deg & 15 g/m³
_____ % humidity

40deg & 40 g/m³
_____ % humidity

40deg & 10 g/m³
_____ % humidity



RELATIVE HUMIDITY FORMULA:

$$\frac{\text{actual amount of water vapor}}{\text{amount of water vapor the air can hold}} \times 100$$

Psychrometer- _____

Saturated – _____

(can be achieved in 2 ways)

- a) Add more _____ to the air
- b) _____ the temperature of the air

Dewpoint- _____

Clouds – _____

Cirrus – _____

Cumulous- _____

White=

Grey=

Stratus- _____

Fog _____

Cirro, cirrus = _____

Alto = _____

Air mass _____



Maritime=

Continental=

Polar=

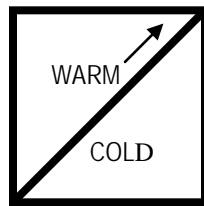
Tropical=

A Fronts – _____



Warm front– _____

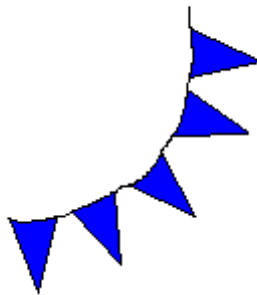
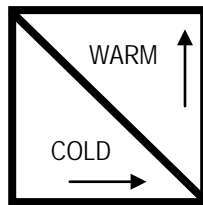
- 1 _____
- 2 _____



Cold front— _____

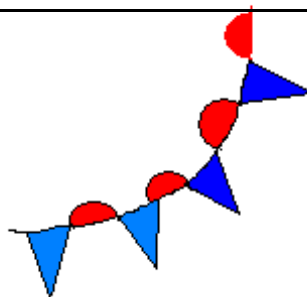
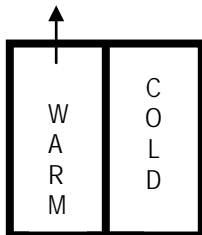
(rapid rising of warm air)

- 1 _____
- 2 _____



Stationary front– _____

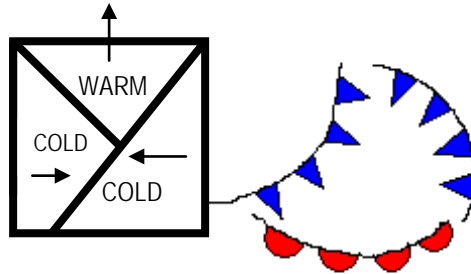
- 1 _____
- 2 _____



Occluded front-

1

2



B Pressure/Wind—

1)

c) No difference in pressure=

d) Small difference in pressure=

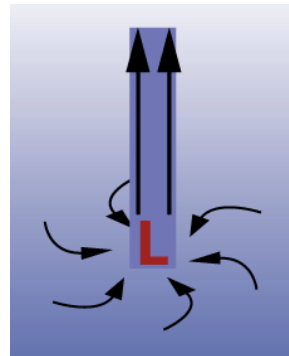
e) Great difference in pressure=

C Cyclone-

1) Rotation=

2)

3) weather=

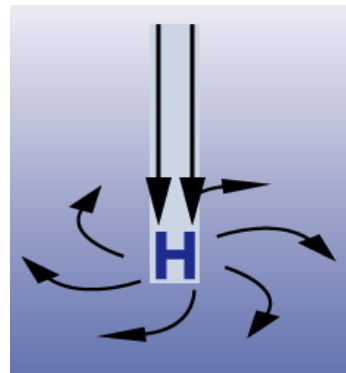


D Anticyclone-

1) Rotation=

2)

3) Weather=



Severe weather 2-3-

A Thunderstorms—small intense weather systems

1 **Strong winds**-caused when _____ falling to earth push _____ out of the way and form big _____ between the colliding _____

2 **Heavy rain**- caused by great volumes of _____ rising

3 **Lightning**- an _____ between _____ areas and _____ areas

a)

b)

c)

4 **Thunder**- the sound that comes from the _____ and _____ of air due to a _____. (air molecules slamming into each other)

5 Negative effects:

a)

b) **Flash floods**- caused by the ground not being able to _____ the excessive rain

c)

d)

e)

f) _____ (from the lightning)

6 Safety measures:

a)

b)

B Tornadoes- _____

- 1 Wind speeds
 - a)
 - b)
- 2 Size
 - a) Destruction path-
 - b) Width of funnel-
- 3 Duration -
- 4 Safety measures:
 - a)
 - b)
 - c)

C Hurricane- _____

- 1 Wind speed-
- 2 size
 - a) Destruction path-
 - b) Width of storm--
- 3 Duration -
- 4 Formed when a group of _____ _____ storms meet over the _____, and then _____ due to winds from different _____
- 5 **Storm surge**- _____ of _____ that builds up due to the _____ _____ and _____ _____ .
- 6 Safety measures:
 - a)
 - b)
 - c)
 - d)
 - e)

Forecasting the Weather 2-4

D Weather forecast-

E Meteorologist –

F Weather instruments:

1 Thermometer- _____

2 Barometer- _____

3 Windsock— _____

4 Wind vane – _____

5 Anemometer- _____

6 Hygrometer- _____

7 Radar- _____

8 Weather satellite- _____

9 Weather maps- _____
