



Essential Question

What is Air Pressure

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Weather
(define)

- is the present state of the lower atmosphere & describes current conditions.

Cause
of weather

What causes weather?

- it is an interaction b/t

Air

Water

Sun

Pressure Systems

- Air mass pushes down creating Atmospheric Pressure on Earth surface.

How Pressure
moves!

Travels From west to east

Effected

- Effected by:

1) Temperature

2) $H_2O_{(vapor)}$ → Humidity3) Density (ρ)

$$\rho = \frac{\text{mass (g)}}{\text{Volume (mL)}}$$

Types of
Pressure

High



Low

direction
of spin

clockwise

counter-clock

Causes of
Pressure

NOTES CONTINUE ON OTHER SIDE

Unequal heating of EARTH Surface



Topic/Objective CHAPTER:

NAME:

DATE

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Low Pressure

- is like a giant funnel of wind
- Spiralling inward and upward forcing warm-ish air towards the center and then to rise, and expands.
- Humidity high $\rightarrow$ hot damp.
- "Loser" $\rightarrow$ Poor weather & clouds
- Air is Less Dense. $\rightarrow$ Snow/Heavy rain storms

Type of Weather
(p) density

High Pressure

- Spiralling outward and downward forcing cold air outward and compressing it to sink.
- High Pressure at the center
- "Fair skies" $\rightarrow$ Clear/Blue sky
- Crisp cool/cold air (Winter time)
- Air is MORE Dense

Type of Weather

(p) density

* Pressure

Cold Air Mass has higher Air Pressure than Warm Air Mass

SUMMARY:

(p) density

Cold Air Mass is MORE dense than Warm Air Mass