

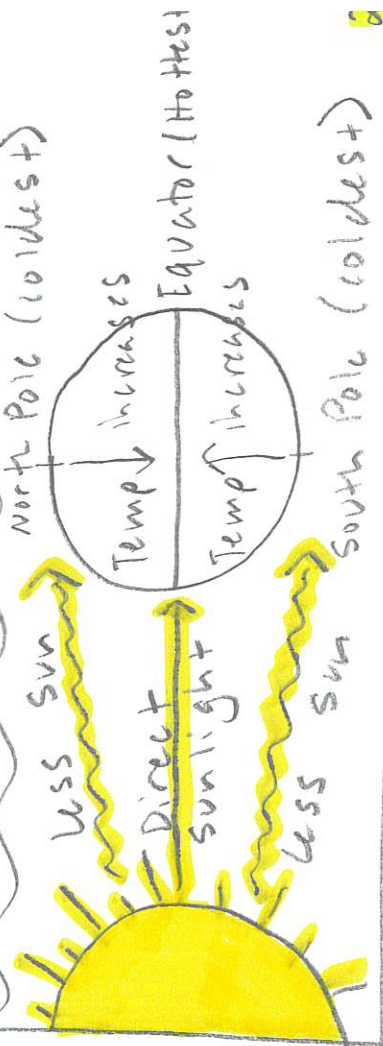
Name: _____
 Period: _____

Wind Notes

Wind: movement of Air
 (aka wind current)

Differential Heating
 Different locations receive different amounts of sunlight.

More sunlight = warmer
 Less sunlight = colder



Differential Pressure
 Places on Earth have different pressure

Hottier Air (e.g. Hawaii)
 Cooler Air (e.g. Alaska)

Less Air molecules (Further Apart)
 More Air molecules (Closer together)

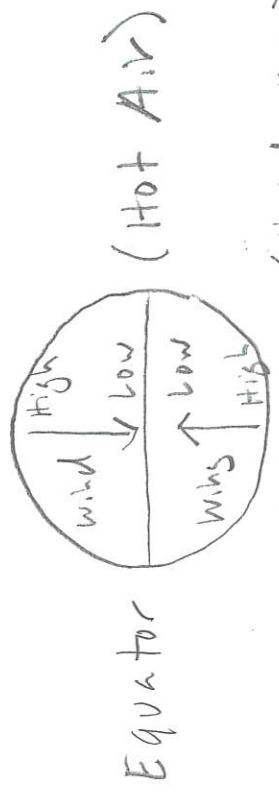


Lower Pressure
 Higher Pressure

What Causes Wind?
 Differences in air pressure around Earth

Air always moves from high to low pressure
 so, air moves from Poles to Equator

North Pole (Cold Air)



South Pole (Cold Air)

CORIOUS EFFECT

All air moving from Poles to Equator curves because of Earth's rotation

Revolution vs. Rotation

Aka orbit aka spin

1 Year or 365 Days 24 Hours

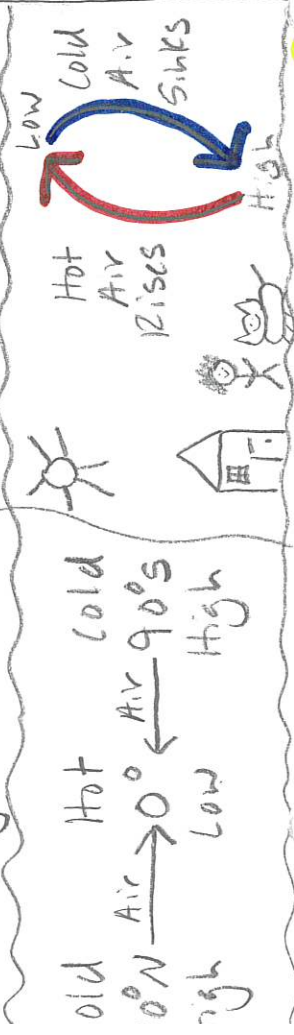


Wind movement

wind moves horizontally and vertically!

Horizontally vertically

Sideways $\rightarrow \leftarrow$ Up and Down $\uparrow \downarrow$

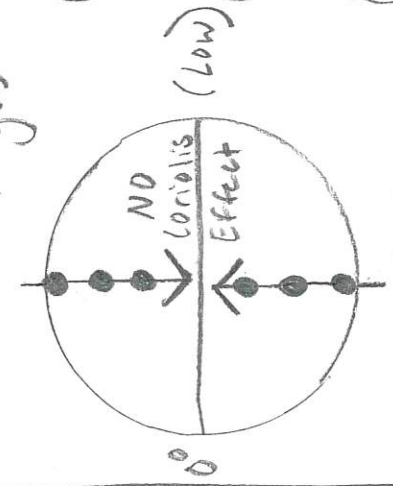


Air always moves from High to Low Pressure

NO SPIN

We're pretending Earth doesn't spin

90°N (High)



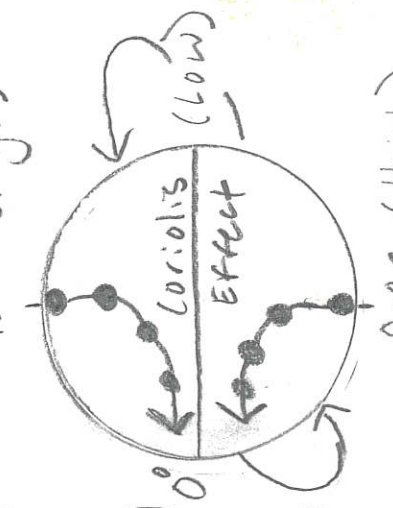
90°S (High)

Straight Path

VS. SPIN

Earth in reality is spinning.

90°N (High)

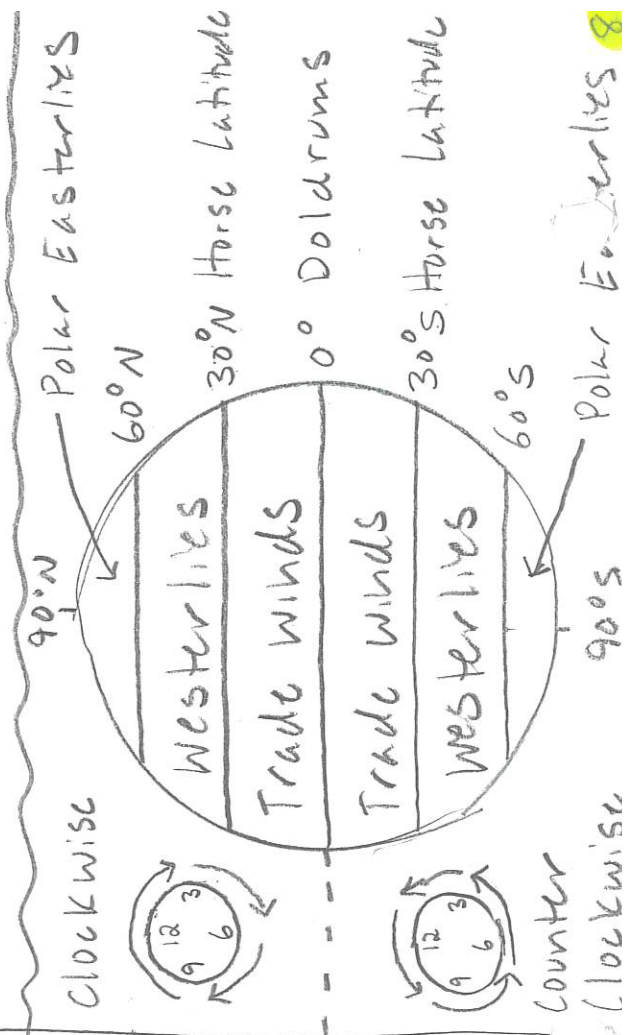


90°S (High)

Curved Path

Global winds

Names of winds around Earth.



Polar Easterlies

90°S

90°S

7

5

6

8