

10/24

Weather - tropospheric conditions at that moment

Areas of weather -

precip
sky
temp
wind
humidity
pressure

Why does weather happen?

Earth absorbs sun's energy unevenly.

Temp

$^{\circ}\text{F} = 32^{\circ}$

$^{\circ}\text{C} = 0^{\circ}$

$^{\circ}\text{F} = 212^{\circ}$

$^{\circ}\text{C} = 100^{\circ}$

Atmosphere (troposphere)

- nitrogen (80%)

- oxygen

- carbon dioxide ⊕ various gases

100% solar energy → earth
absorb (differently) (land + earth 50%)

Radiate about $\frac{2}{3}$ of solar energy

* Cold air = sinks (falls) contracts → Dense

* Hot air = rises expands