

1. What happens to air pressure as altitude increases?

air pressure ↓ altitude ↑

2. What gases make up the atmosphere? What are the percentages of each?

Nitrogen 78% oxygen 21% other gases 1%

3. In which layer of the atmosphere is weather found?

troposphere

4. What is the relationship between humidity and chances of precipitation?

↑ humidity good chance of precipitation

5. What is the relationship between altitude and air pressure?

its opposite

6. List the parts of the water cycle and what happens to water in each.

7. Why is the eye of a hurricane so dangerous?

it makes you think it is over

8. What kind of weather can you expect from a low pressure system? High pressure?

bad weather

good weather

9. What weather conditions are necessary for a thunderstorm to form?

humid air, low pressure

10. What conditions are necessary for a hurricane to form?

tropical winds, low air pressure, warm temps, moist ocean air

11. What does a barometer measure?

air pressure

12. What causes wind? How does wind move? (hint: high pressure to low pressure)

moving air from high to low pressure

13. As particulate air matter increases, air quality decreases

14. What is the relationship between particles in the air and air quality?

more particles worse air quality

15. Why is it important for people to study the atmosphere?

16. Describe how global warming could increase the likelihood of more hurricanes.



## Clouds

How are clouds formed?

condense water vapor

What type of clouds is associated with thunderstorms?

cumulonimbus

Describe a cumulus cloud.

~~amvil~~ cumvil

Describe a stratus cloud.

low covering

## Weather mapping technology

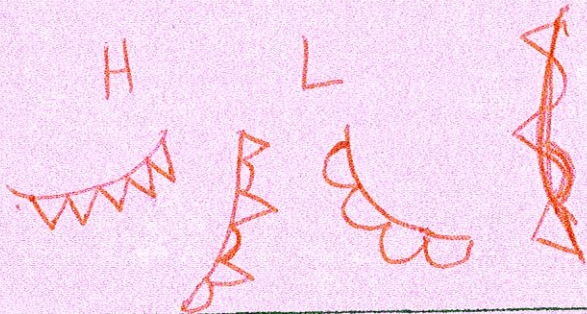
Infrared technology is used for:

temperature readings at night

Doppler radar is used for:

mapping precipitation

## Weather Map Symbols



## High Pressure

In High Pressure, the weather is

sunny

This is because:

cold air sinks

## Low Pressure

In Low Pressure, the weather is

bad

This is because:

warm air rises

## Humidity

Warm air can hold more moisture. This is because the molecules are further apart in warm air and there is more room for the water molecules to fit. What else do you know about humidity?

## Wind

How is a seabreeze formed?

High pressure over the sea sinks and low pressure over the land rises

What are pressure gradients?

areas with same amount of pressure

## Jet Stream

What is the jet stream?

area of high winds 10km above earth

Where do I find the jet stream?

10km above earth

Why is it important?

moves air masses