

Clim

place glue on
dots ☺

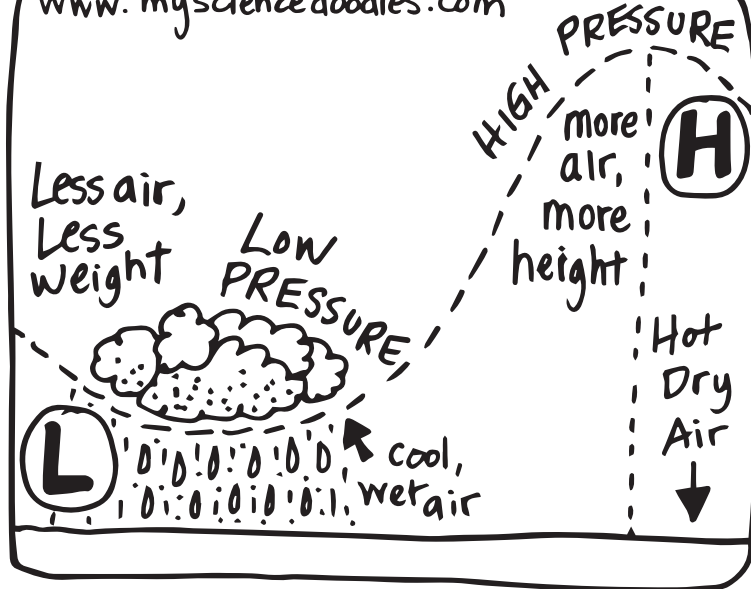
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WEATHER

describes the _____ of the _____ outdoors
such as _____, cloud cover, _____ and _____.

www.mysciencedoodles.com



• the four seasons •

Winter	Spring	Summer	fall
--------	--------	--------	------

tornadoes



hurricanes



condensation: the _____ off of _____ in the _____
changing _____ to a _____

precipitation: water droplets _____ from the _____ in the form of _____, _____, _____ or _____

humidity: the amount of _____ in the air.

• Weather SYMBOLS •

CLIMATE

the _____ or typical weather condition of
a region _____ after _____ (at least a _____)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

the average or typical weather is:

Things that affect climate:

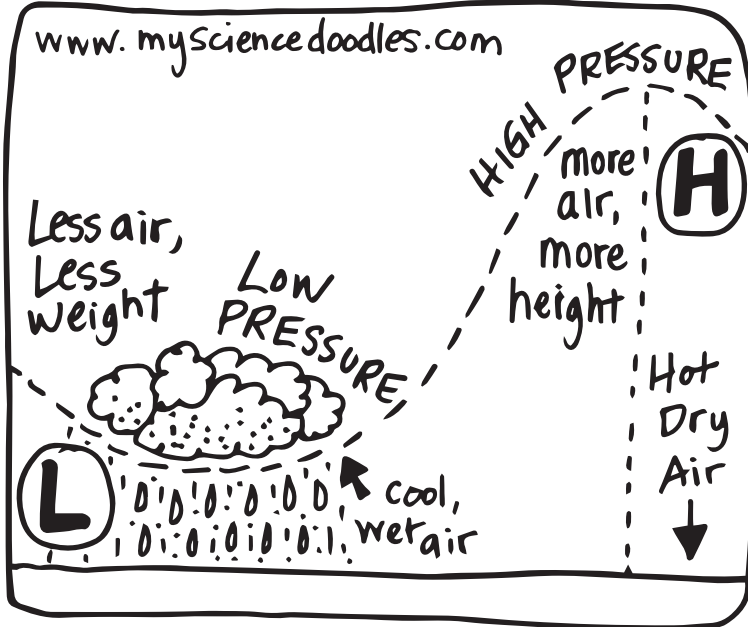
- shape of _____
- elevation
- closeness to _____
- _____ in the atmosphere
- wind
- _____ currents
- nearness to _____

To determine
CLIMATE
over time look
at _____
and _____



WEATHER

describes the condition of the air outdoors such as temperature, cloud cover, windspeed and rainfall.



condensation: the cooling off of water in the atmosphere changing gas to a liquid

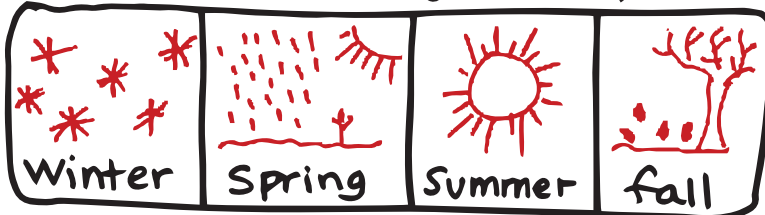
precipitation: water droplets fall from the atmosphere in the form of rain, sleet, snow or hail

humidity: the amount of water vapor in the air.

• Weather SYMBOLS •

High Pressure Hot dry air	cloudy
Low Pressure cool, wet air	Sunny
Cold front	partly cloudy
warm front	rain
thunder storms	snow

• the four seasons •



tornadoes

hurricanes



CLIMATE

the average or typical weather condition of a region year after year (at least a season)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

the average or typical weather is:



Things that affect climate:

• shape of land



• elevation

• closeness to equator



• gases in the atmosphere

• wind

• ocean currents

• nearness to water



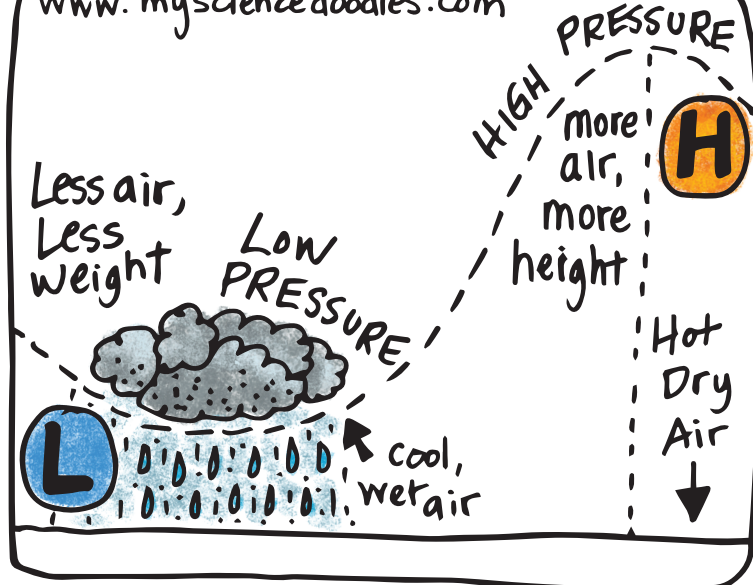
To determine CLIMATE over time look at precipitation and temperature



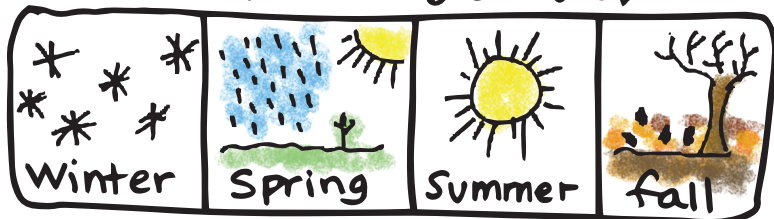
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• gases in the atmosphere

• wind

• ocean currents

• nearness to

water



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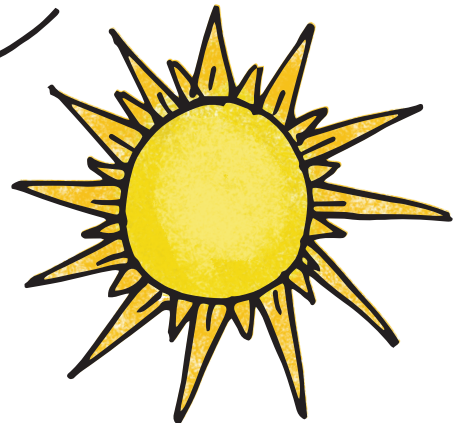


place glue on dots
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MAPPING

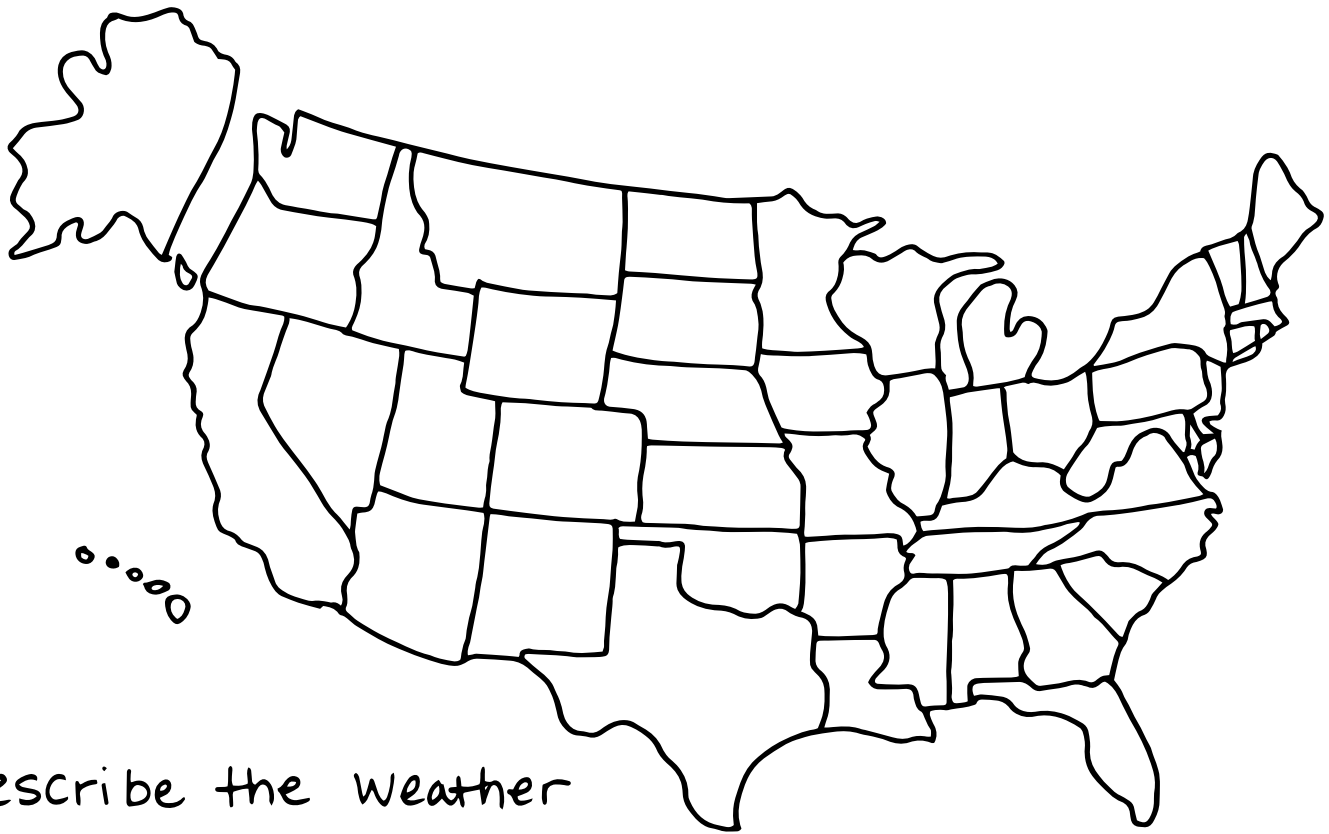


Weather



TODAY DATE:

Shade in your home state. Look up the weather online and complete this map below. Use weather symbols to show today's weather.



Describe the weather in 3 different states below:

STATE	WEATHER

Predict a change in weather for tomorrow:

How did you make this prediction?

Weather
and
Climate

Tools



we use to
determine the
condition
of the
air
outside

Can
we
Predict
the
Weather?

place glue
on dots
😊

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Tools

help us
make

exams
by
studying
trends
Over
time.

*

What is
the weather
today?

Weather and Climate Tools



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What is
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today?

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o

Weather
and
Climate

Tools



place glue
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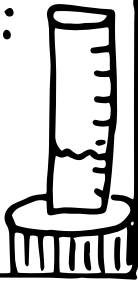
What is
the weather
today?

Tools help us make
Predictions
Studying trends
Over time.

*

WEATHER tools:

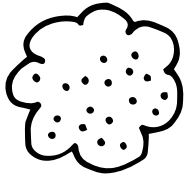
RAIN GAUGE:



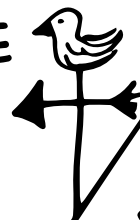
THERMOMETER:



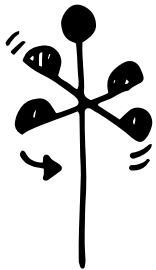
HYGROMETER



WIND VANE



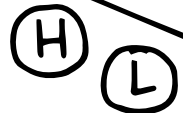
ANEMOMETER



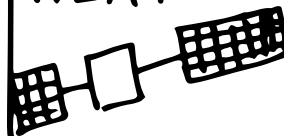
WEATHER
BALLOON



BAROMETER

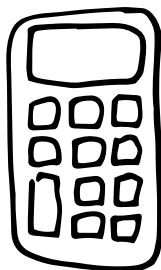


WEATHER SATELLITE



CLIMATE tools:

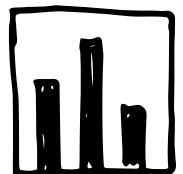
CALCULATOR



COMPUTERS

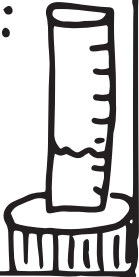


GRAPHS, CHARTS,
DATA + INFO.




WEATHER tools: measures daily conditions of the air outdoors


RAIN GAUGE:
measures the amount of rainfall




THERMOMETER:
measures the air temperature in Farenheit




HYGROMETER
measures the amount of water vapor or humidity




WIND VANE
determines the direction of the wind



ANEMOMETER
measures the wind speed
no spin = no wind
Spin fast = fast wind




WEATHER BALLOON
collects data over large areas



BAROMETER
measures air pressure

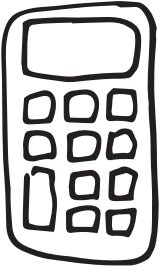


WEATHER SATELLITE
photographs and tracks large scale movements




CLIMATE tools: measures averages (temperature + rainfall)

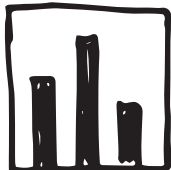
CALCULATOR
average all daily weather data



COMPUTERS
makes charts and graphs to see trends




GRAPHS, CHARTS, DATA + INFO.
helps to analyze data




WEATHER tools: measures daily conditions of the air outdoors


RAIN GAUGE:
measures the amount of rainfall




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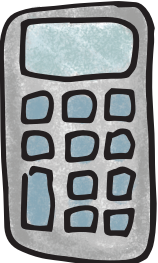


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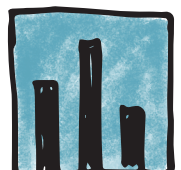
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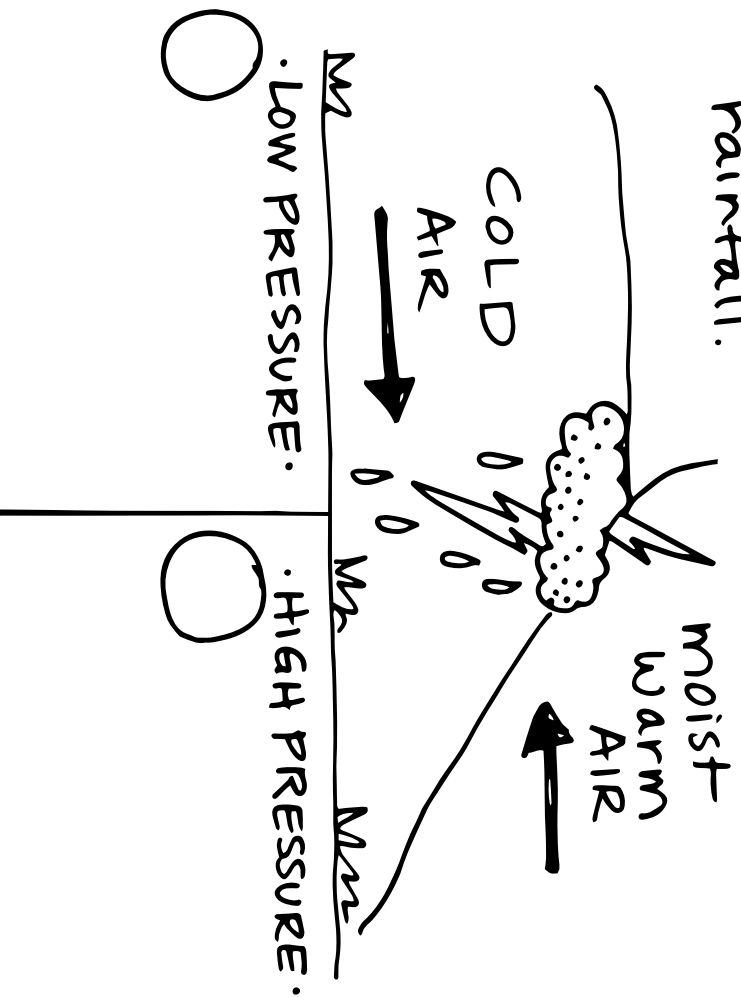
GRAPHS, CHARTS, DATA + INFO.
helps to analyze data



UNDERSTANDING

FRONTS

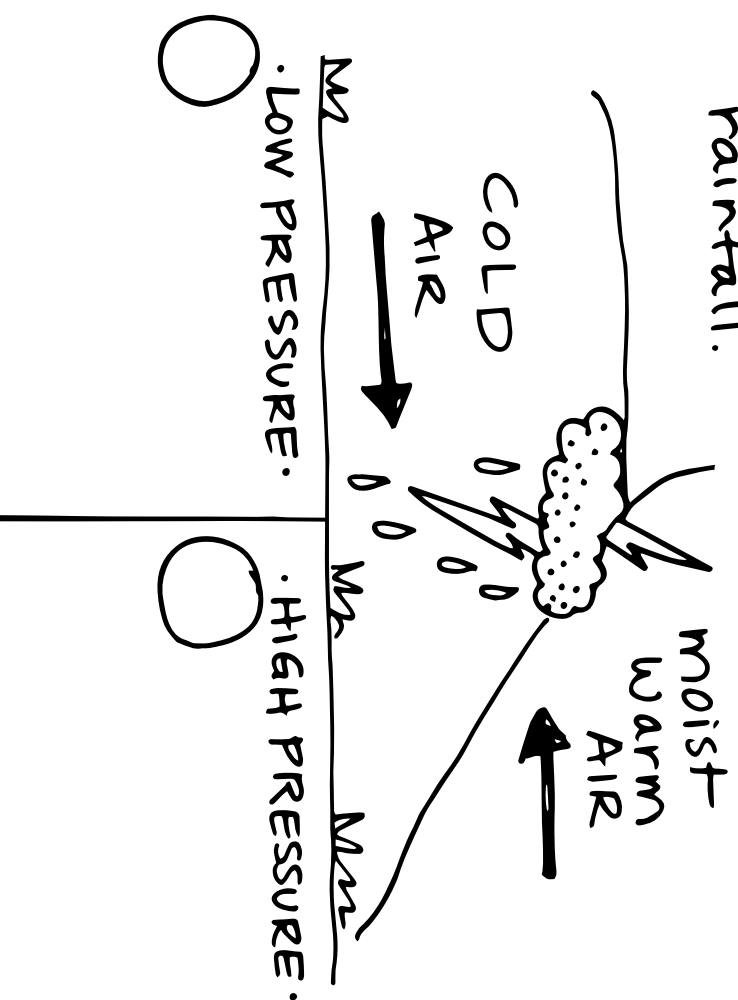
If there is _____
or _____ in air, and
warm air _____ cold air,
CONDENSATION occurs
causing _____ or
rainfall.



UNDERSTANDING

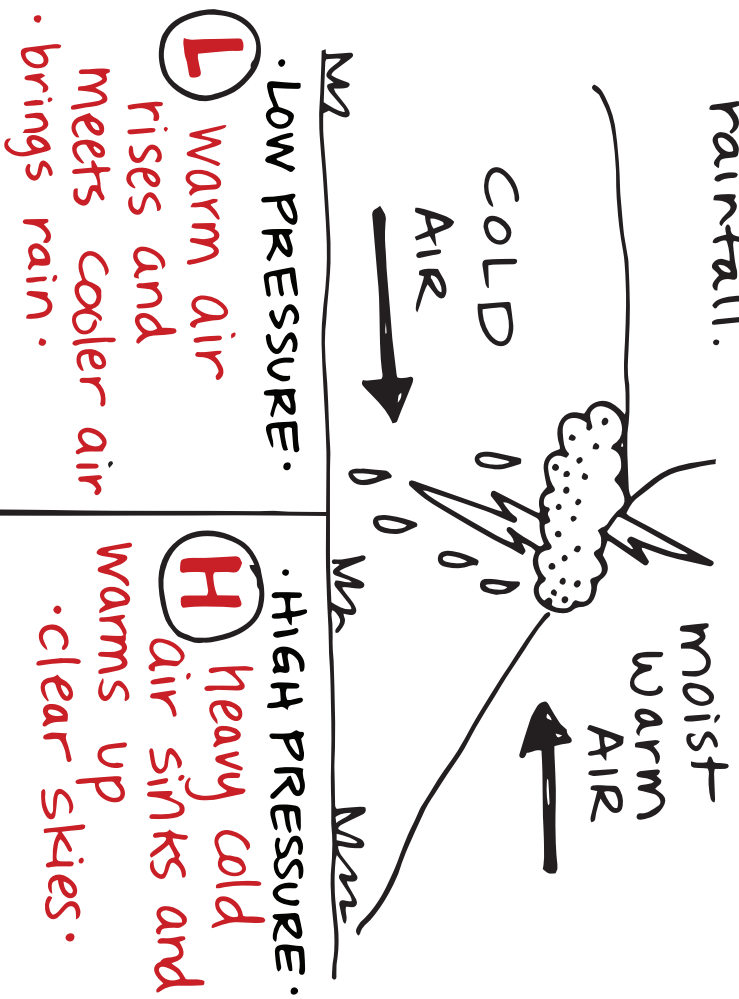
FRONTS

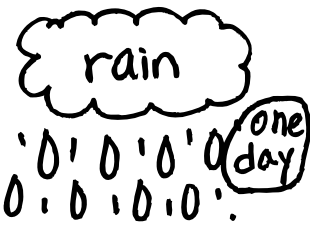
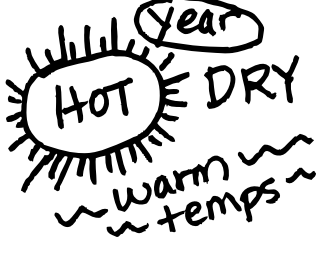
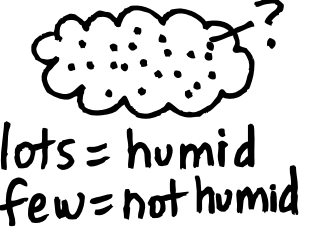
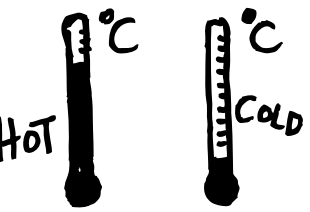

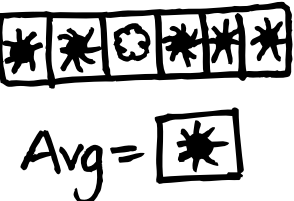
If there is _____
or _____ in air, and
warm air _____ cold air,
CONDENSATION occurs
causing _____ or
rainfall.



UNDERSTANDING FRONTS

If there is moisture
or water vapor in air, and
warm air meets cold air,
CONDENSATION occurs
causing precipitation or
rainfall.

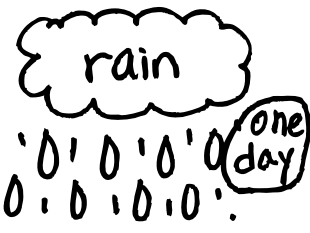
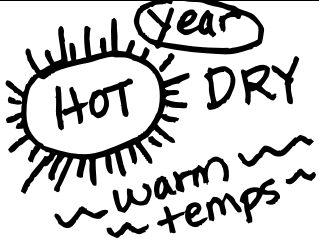
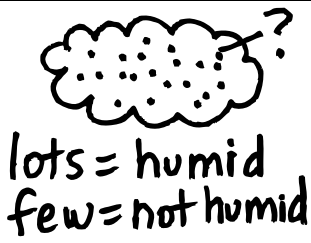
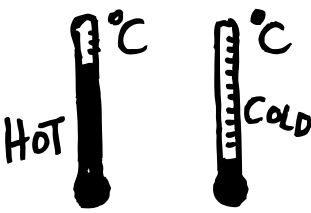

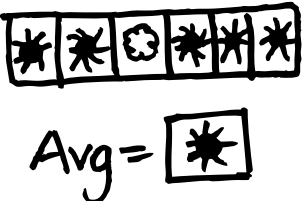


Draw a Picture	Vocabulary Word	Definition
	weather	describes the Condition of the air outdoors Such as temperature, cloud cover, wind, speed and rainfall
	climate	average weather Condition of a region year after year (season)
	humidity	the amount of water Vapor in the air
	temperature	how hot or cold something is
	data	pieces of information
	typical	usual , average

Unit # 13 Weather + Climate

Cut on lines and glue
in notebook

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Draw a Picture	Vocabulary Word	Definition
		
		
		
		
		
		

Unit # 13 Weather + Climate

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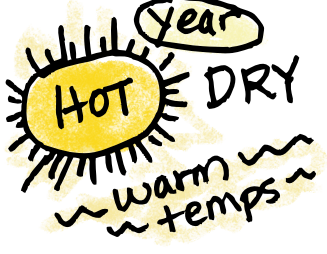
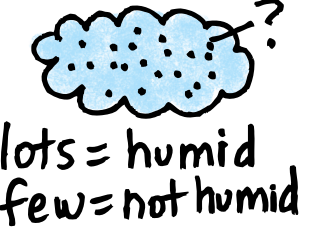
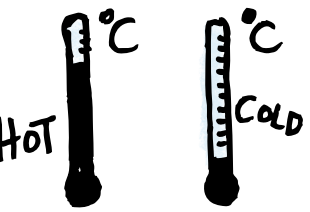
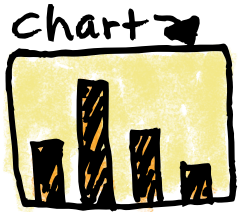

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Unit # 13 Weather + Climate

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QUIZ about WEATHER & CLIMATE

#	NAME:
---	-------






DIRECTIONS: Analyze the data in the charts below. Circle weather or climate, and write a short summary proving your discovery.

	High Temp	Low Temp	AVG Temp	Rain in inches	Snow in inches
2010	99	60	80	7	0
2011	97	59	84	5	0
2012	98	56	85	6	0
2013	96	58	81	7	0

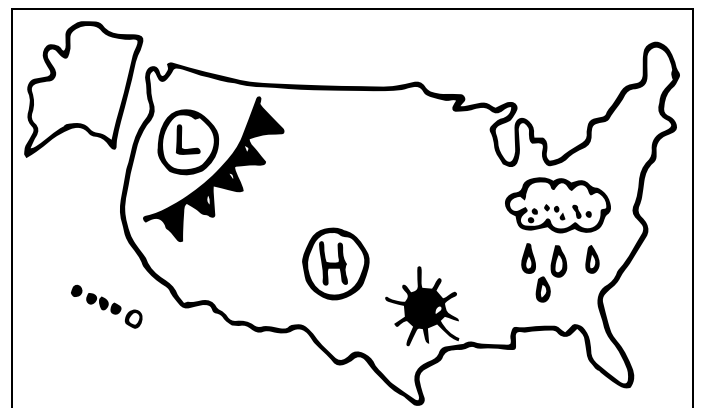
Circle one: Weather or Climate

	Average Temp	Rain in inches	Snow in inches
AUG	45	0	4
SEPT	42	0	10
OCT	36	0	12
NOV	28	0	24
DEC	25	0	54

Circle one: Weather or Climate

MON	TUES	WED	THUR	FRI
79	80	78	75	60
				

Circle one: Weather or Climate



Circle one: Weather or Climate

QUIZ about WEATHER & CLIMATE

#	NAME: <u>KEY</u>
---	------------------

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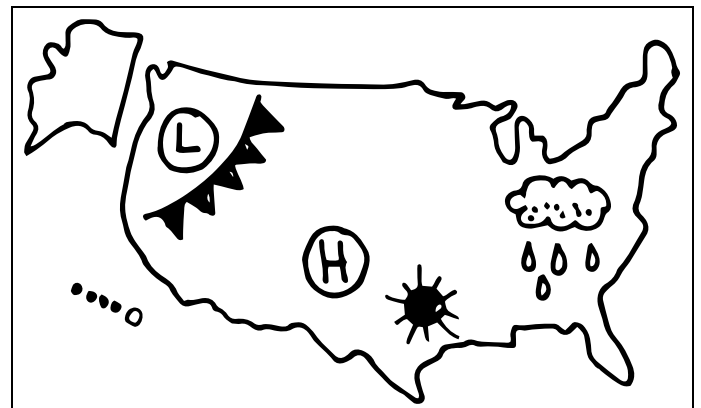
Circle one: Weather or Climate

This is showing an average over years. This area is dry and hot with no snow and very little rain.

Circle one: Weather or Climate

Climate is an average of temp. and rainfall over months. This area is cold with snow every month.

MON	TUES	WED	THUR	FRI
79 	80 	78 	75 	60 



Circle one: Weather or Climate

the weather is what is happening outdoors on a daily basis. This shows sunny skies on Mon-Wed with thunder storms on Thursday and rain with colder air on Friday.

Circle one: Weather or Climate

This picture shows one day weather conditions. In the central southern states it is hot and clear. Northwestern states are rainy and cold and Eastern states are wet and rainy.

