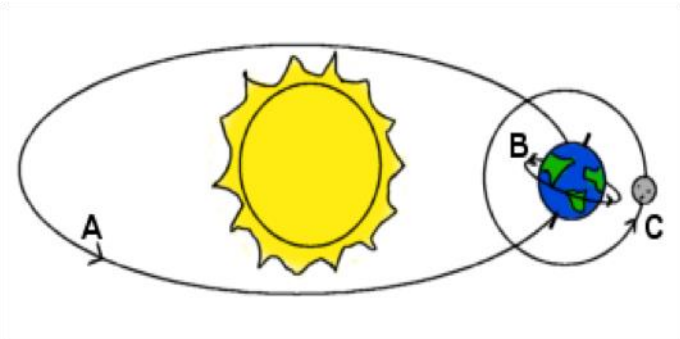




Reporting Category 3

8th
Grade
Science
STAAR

Which letter on the model illustrates rotation on an axis? _____ This length of time takes one day.



Which letter on the model illustrates a revolution around the sun? _____ This length of time takes one year.

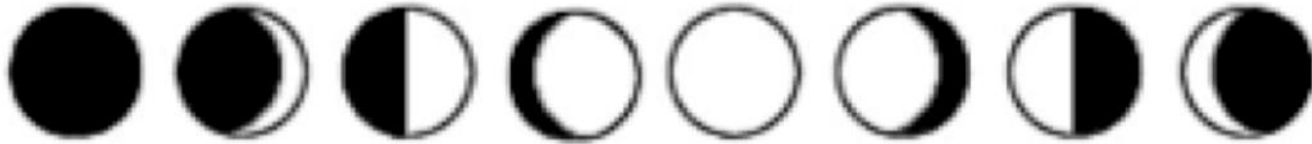


A student is using a globe to model the seasons. If the northern hemisphere is tilted towards the Sun, what season is occurring in Texas? _____

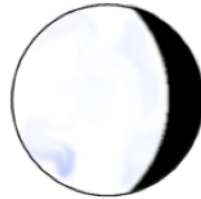
B

A

Summer



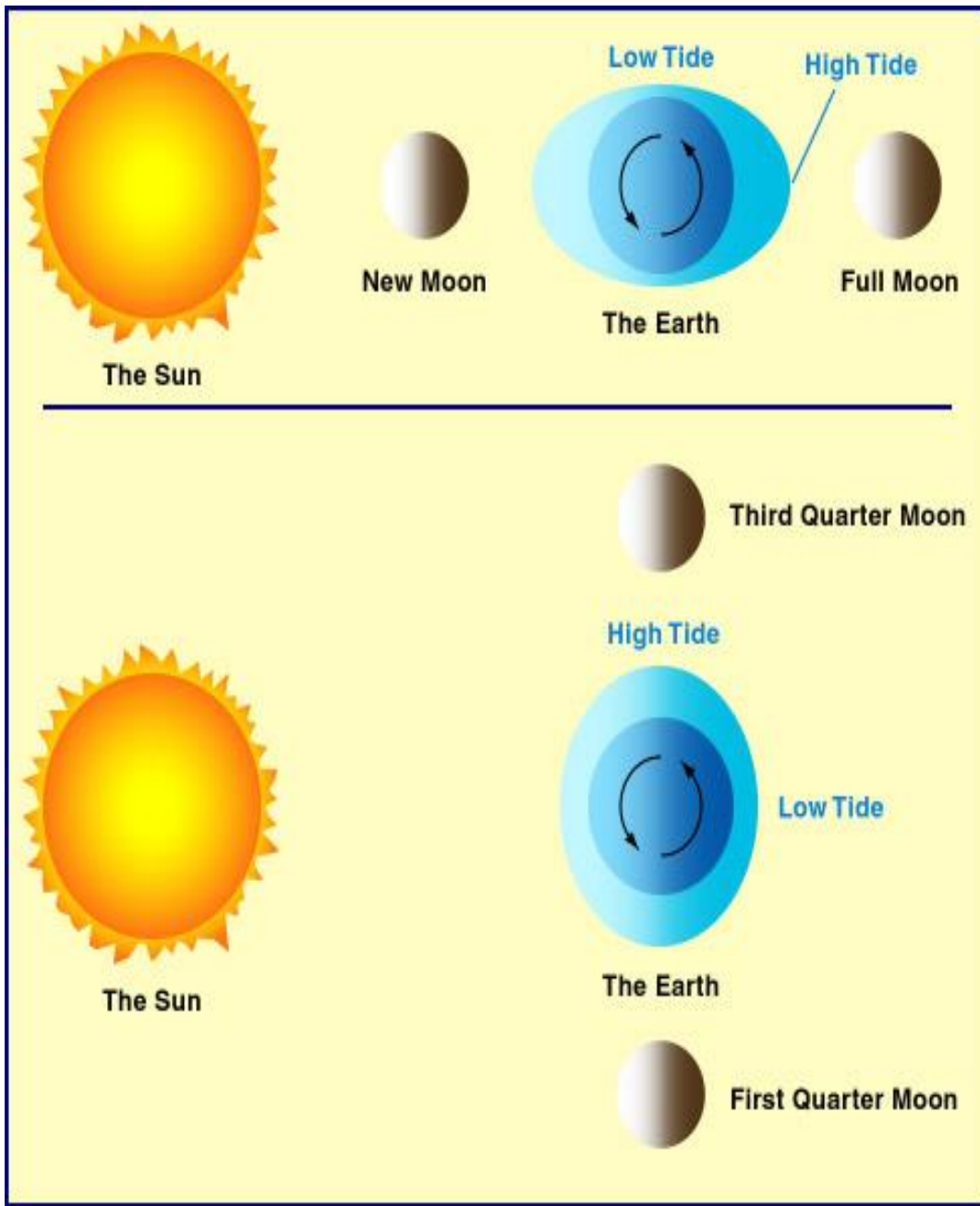
What lunar phase directly follows the waxing crescent? _____



What is the name of the phase of the Moon in the picture?

1st Quarter

Waning Gibbous



At which positions of the moon would you have the best waves to go surfing on?

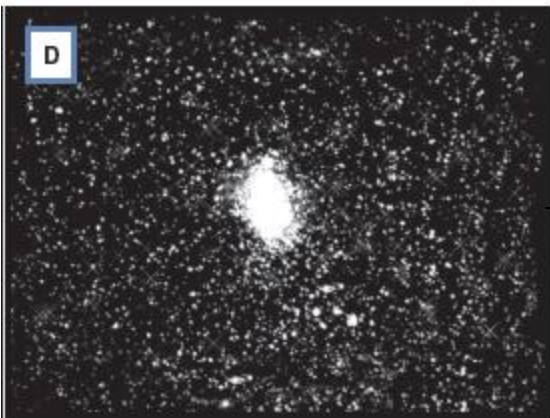
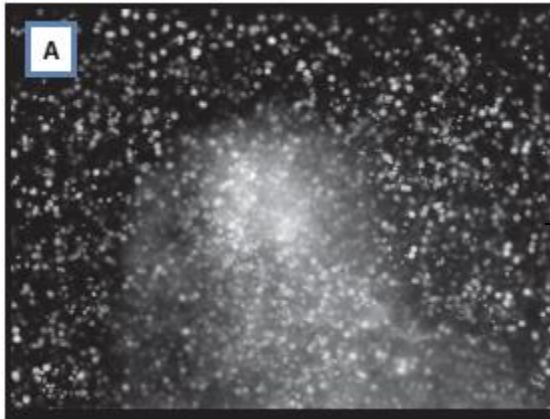
Which position or positions in the diagram represent the occurrence of a Neap Tide on Earth?

Which position or positions in the diagram represent the occurrence of a Spring Tide on Earth?

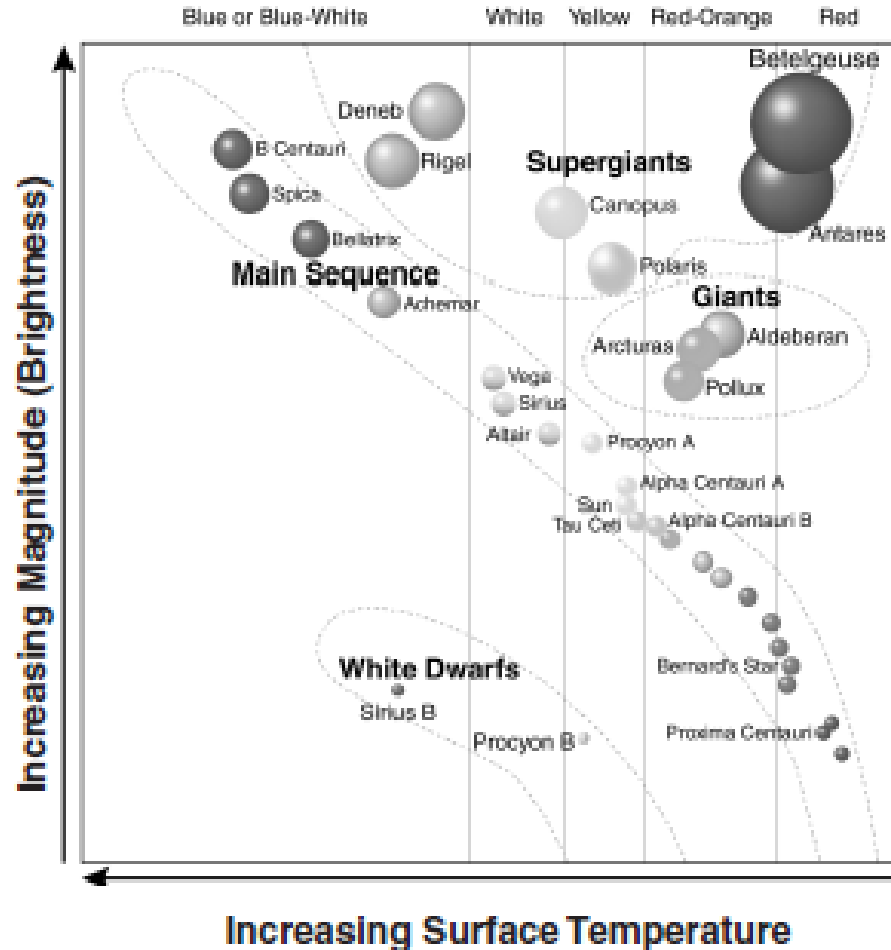
New or Full Moon

1st Quarter and Last Quarter

New and Full Moon



The Hertzsprung-Russell Diagram



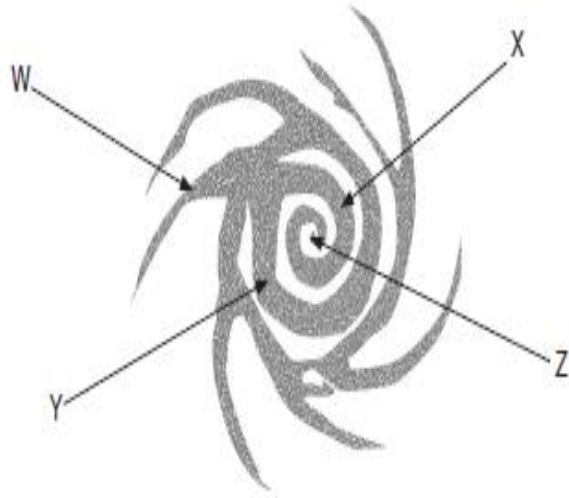
What color is Altair? _____

Irregular

Elliptical

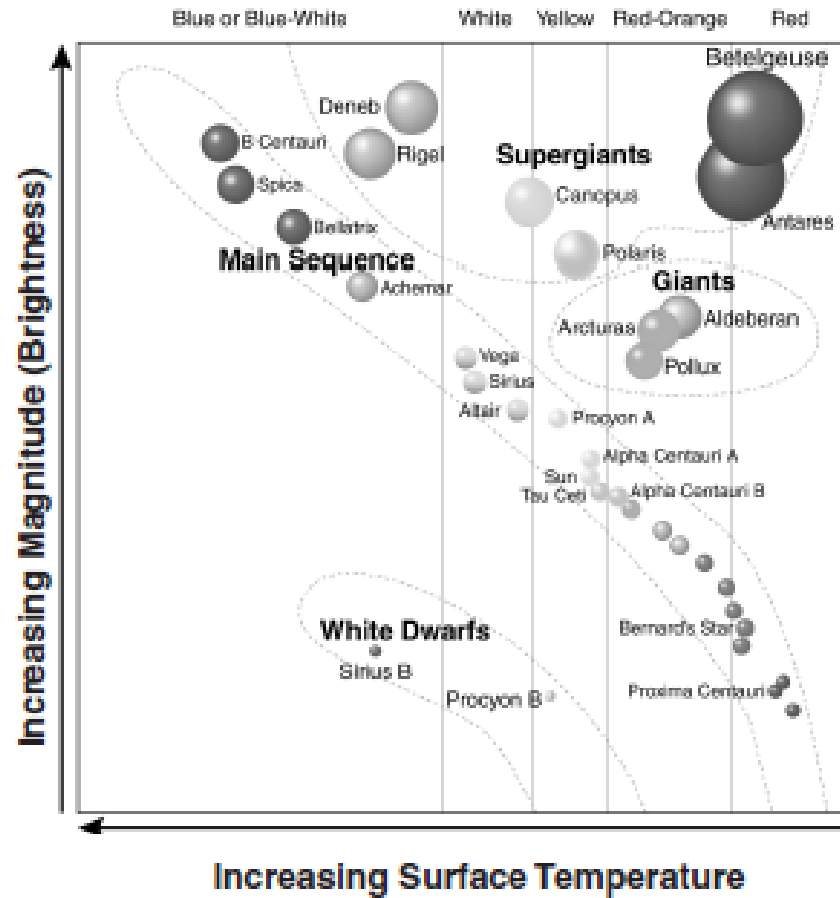
Spiral

White



The Sun is a star in the Milky Way galaxy. Which location above best represents the location of the Sun? _____

The Hertzsprung-Russell Diagram



What is the color of the Sun? _____

What is the Temperature of the Sun? _____

What is the size of the Sun?

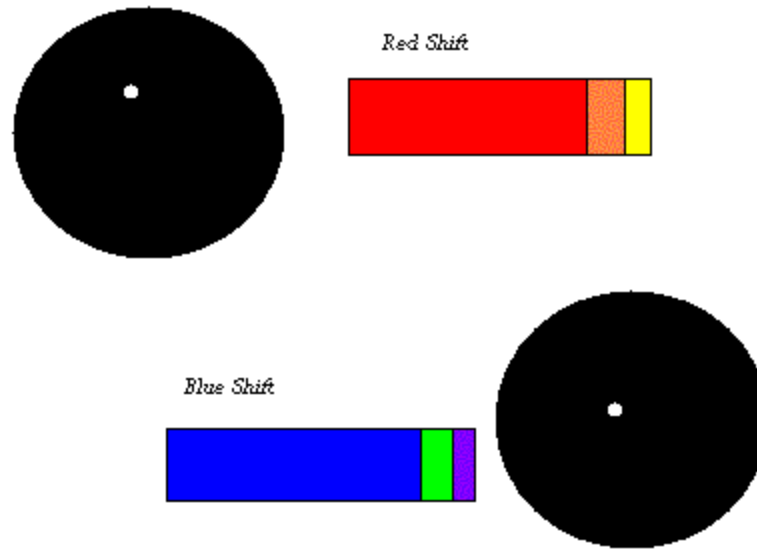
W

Yellow

Average

Medium

Studying the red shift in light is important to astronomers because it provides evidence that _____

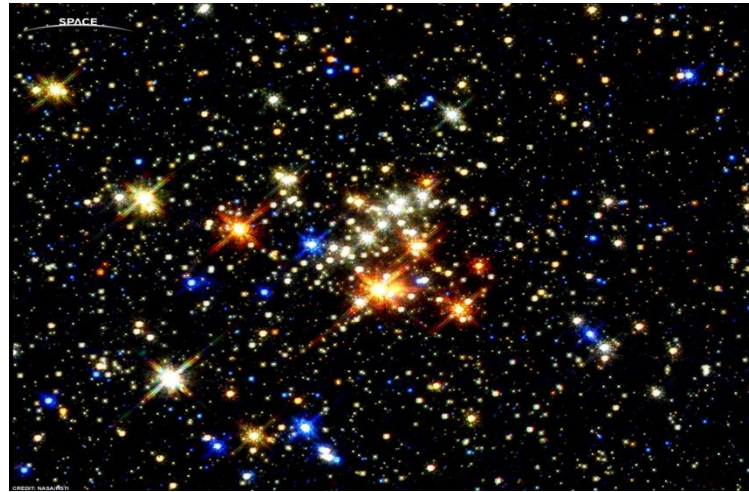


By studying the light from stars in distant galaxies, scientists know that objects in the universe are moving _____.

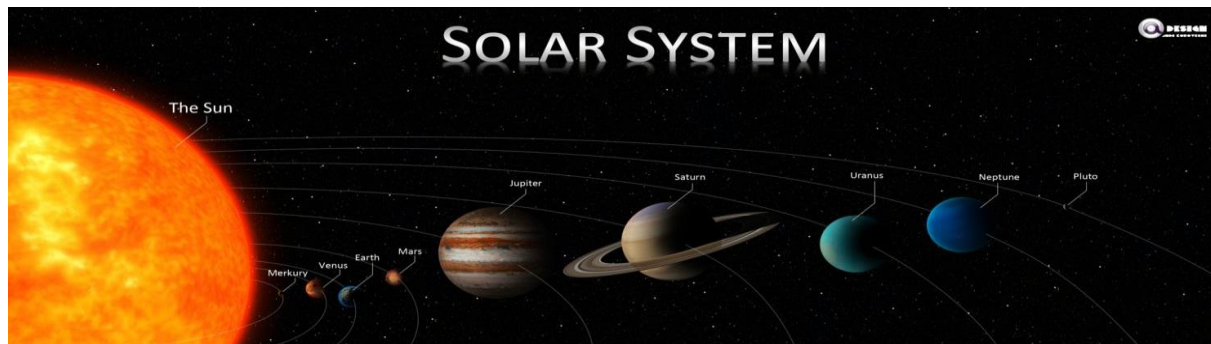
The Universe is
Expanding

Apart

A _____ is an appropriate unit for measuring distances in the universe?



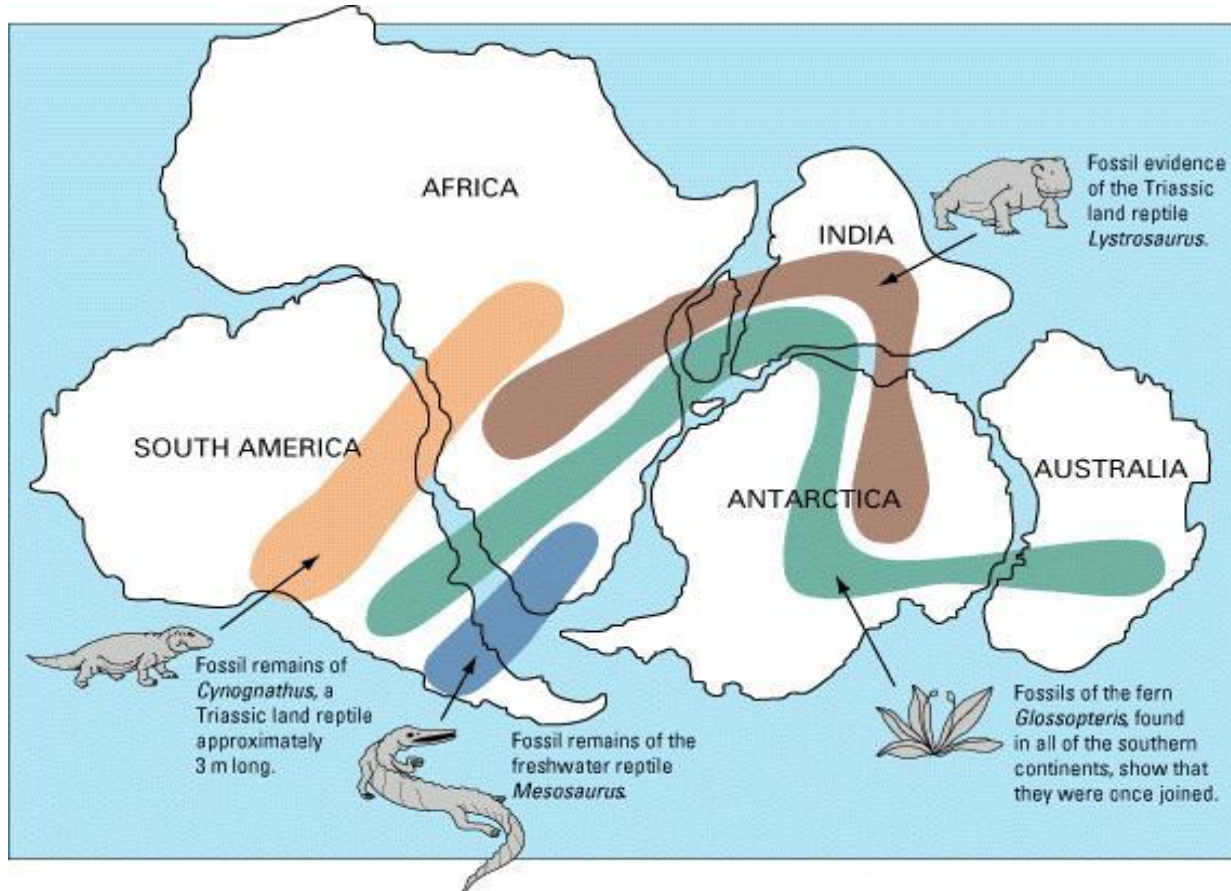
What measurement is used to measure distances between planets in our solar system? _____



Light Year

Astronomical Unit (AU)

In the early 20th century, Alfred Wegener named the super continent of Pangaea as part of his _____



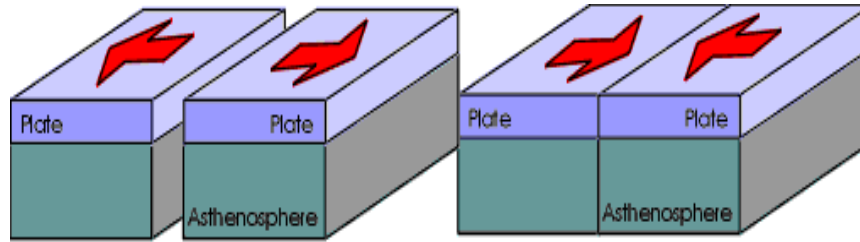
What evidences support the Theory of Continental Drift? _____

Theory of Continental Drift

Fossil Evidence
Land Masses Fit
Like a Puzzle

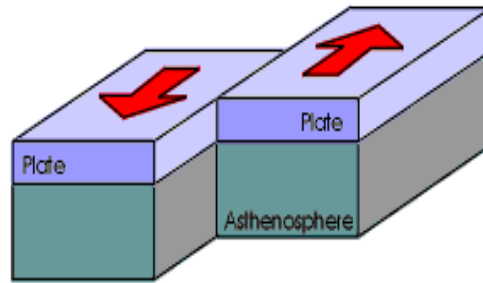
Crustal features formed at Divergent boundaries in the ocean are called _____

and on land is _____.



Divergent

Convergent



Transform

Crustal features formed at a Transform boundary is a _____.

Crustal features formed at Continental vs. Continental boundaries _____

Oceanic vs. Continental _____

and Oceanic vs. Oceanic _____.

Mid-ocean Ridges

Rift Valley

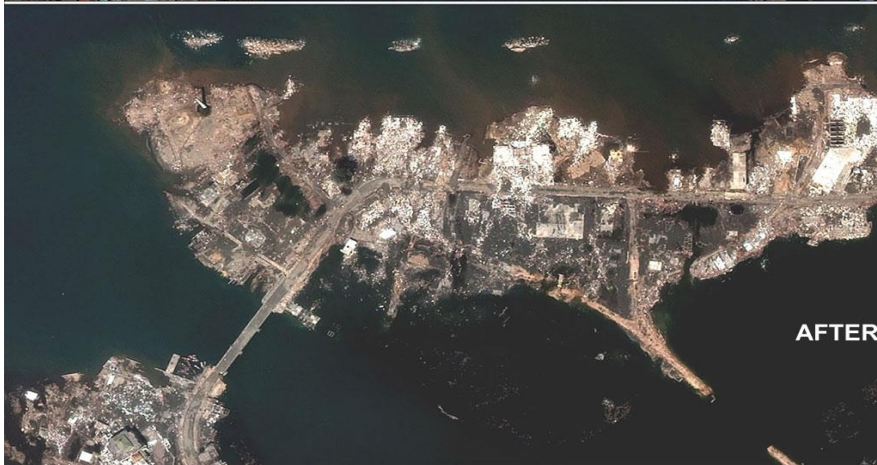
Folded Mountains

Volcanic Mountains
and Trenches

Island Arcs and
Trenches

Fault

What is the major agent of erosion? _____



Why do people use satellite images to observe land features? _____



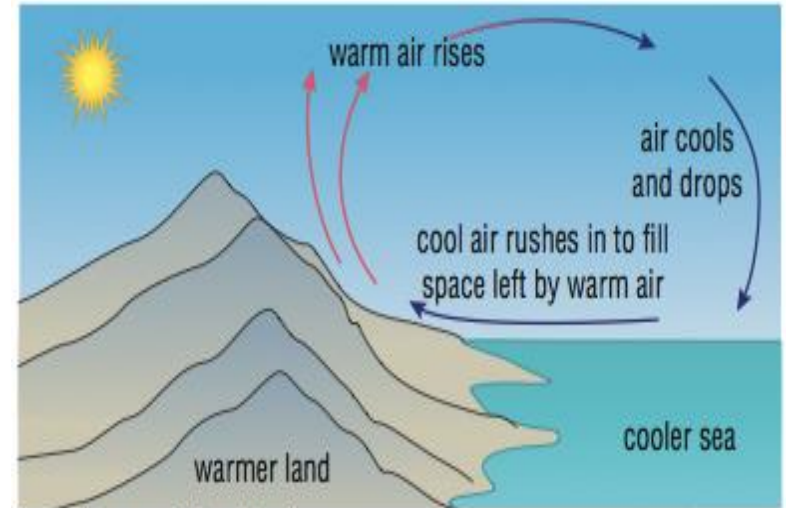
What is the process that is removing the sand from the beach? _____

Water

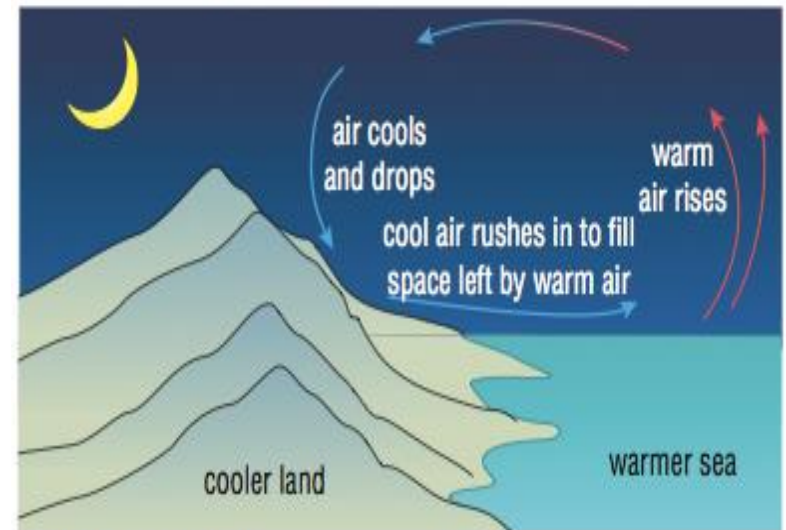
Beach Erosion

Shows Changes Over Time

The _____ provides the energy that drives convection currents within the atmosphere.



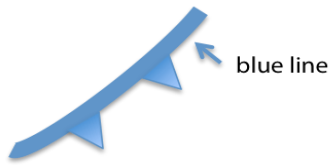
A sea breeze during the day



A land breeze at night

Sun

Look at this symbol, which is used on weather maps. When used on a weather map, what does this symbol represent? _____



Cold fronts are fast moving with steep frontal boundary that force the warm air to rise quickly, resulting in rapid phase changes. Cold fronts are characterized by dramatic storms, cumulonimbus clouds, thunder, lightning, and sometimes tornadoes.

Look at this symbol, which is used on weather maps. When used on a weather map, what does this symbol represent? _____



Warm fronts are relatively slow moving and are characterized by a series of clouds getting lower and thicker as the front approaches.

An air mass with greater atmospheric pressure than the surrounding air masses; air moves away from the high pressure, traveling in a clockwise direction!



HIGHS bring pleasant weather conditions in the summer and very cold clear weather in the winter.

An air mass with less atmospheric pressure than the surrounding air masses; air moves toward the low pressure, traveling in a counterclockwise Direction!



Cold Front

Warm Front

High Pressure

Low Pressure



Look at the picture provided, which shows California. The coastal area of Santa Barbara, California typically has daily temperatures in the 21°C range with nighttime temperatures in the 1°C range. However, if you travel inland, the summer temperatures can soar to over 38°C . Why do these areas have such different climates? _____

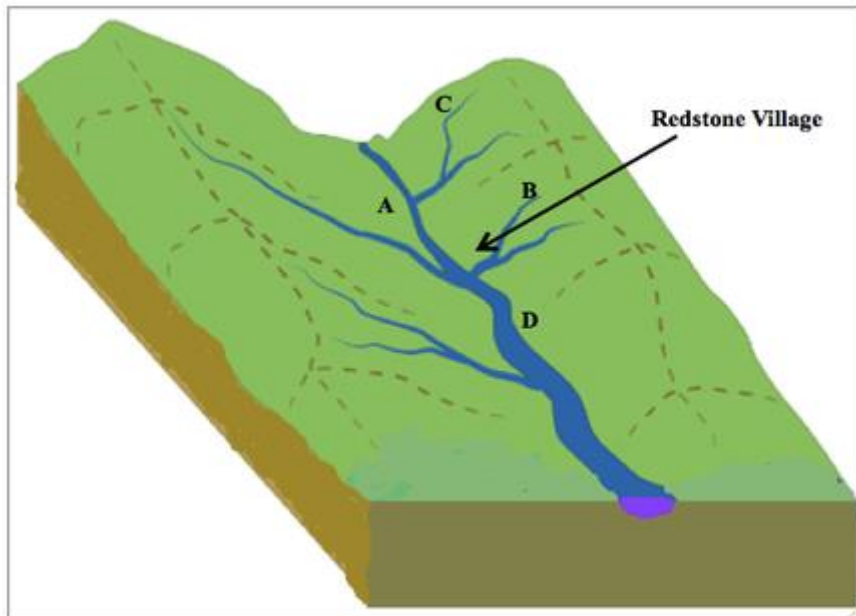
What forms when warm, moist air rises up from the ocean to form a low pressure system with rotating clouds? _____



Hurricanes

Cold Ocean Currents

A paper company wants to build a paper mill in the watershed pictured. The citizens of Redstone Village are concerned about the point source pollution that may be generated by the paper mill. Which location would be the best place to build the paper mill so that Redstone Village would not have polluted water from the paper mill's waste flowing past it? _____

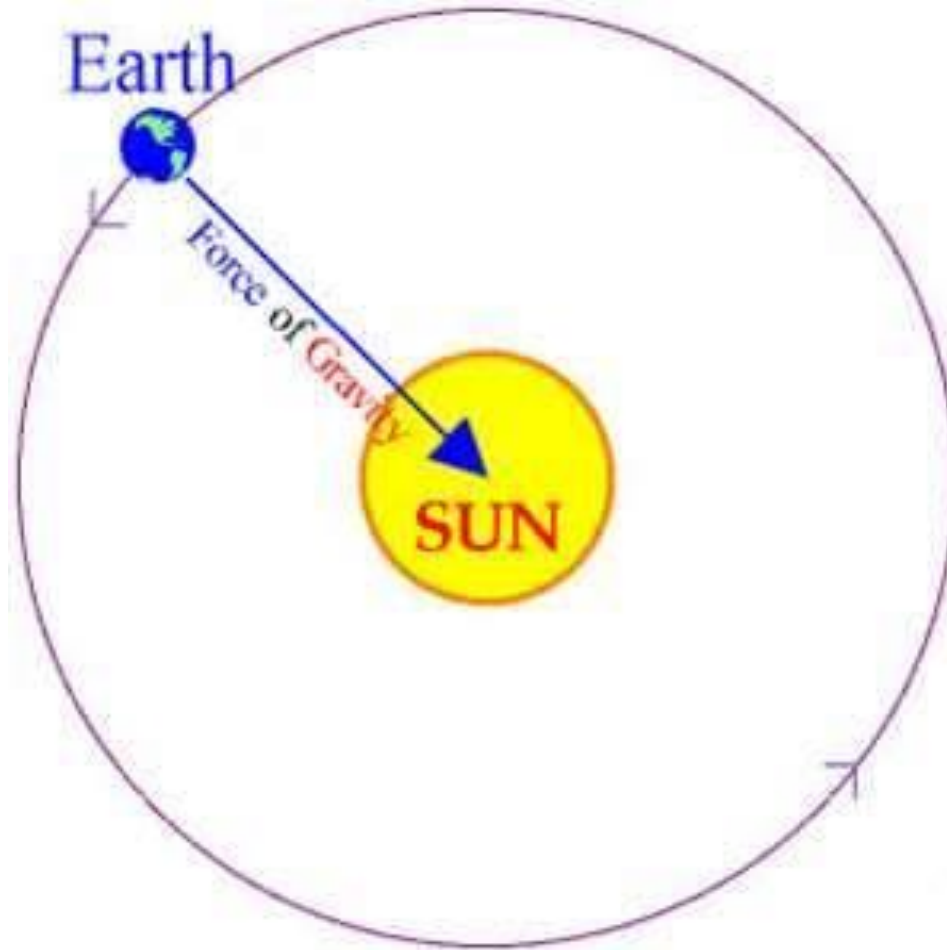


What is an effect of humans over pumping groundwater?

D

Sinkhole

_____ is the forces that governs the motion of our solar system.



_____ and _____ are the forces that keep planets orbiting the sun in an elliptical motion.

Gravity

Inertia and Gravity