

Name: _____

Weather and Climate Notes

1. Weather and Climate: What is the difference?

a. Weather:

b. Climate:

c. List 3 kinds of precipitation:

d. What is the climate like in Yuma, Arizona?

2. Latitude

a. Warmest weather near the _____.

b. Biggest effect on _____.

c. Why do pineapples not grow in polar areas?

3. Atmospheric Pressure

a. Is the weight of the atmosphere _____

b. Caused by unequal heating of _____

c. Rising warm air= _____

d. Falling cold air= _____

e. Winds move from _____ pressure to _____ pressure areas

4. The Sun

a. _____ miles away

b. Gives off energy and light essential for _____

5. Video: The Sun

a. What is the scientific name for the sun?

b. How old is the sun?

c. How hot is the surface?

d. How long does it take light to get to earth?

6. Video: How does the Sun cause the seasons?

7. Greenhouse Effect

a. Small amount of _____ reaches earth

b. Atmosphere is like a greenhouse- _____

8. Solstices

a. Days when sun is directly overhead Tropics of Capricorn and Cancer

b. Day with the most daylight: _____

c. Day with the least daylight: _____

9. Equinoxes

a. What Days? _____

b. _____ hours of day and night everywhere on earth

c. At noon, the sun is directly over the _____

10. Mountain Barriers (Draw the diagram below)

11. Elevation (Draw the diagram below)

12. Continental Locations

- Oceans are solar _____
- Because water _____ & _____ more slowly than land...
- Coastlines have a _____ temperature
- Interior of the continent has _____ (hotter & colder)

13. Ocean Currents

- Movement of water is called _____
- Ocean currents flow in _____ paths
- Warm currents carry water from low to high latitudes
- Cool currents return cooled water from high to low latitudes

14. Wind Belts:

- Movement of air is called _____
- Trade winds: _____
- Westerlies: high pressure to low pressure, carry weather across US from _____
- Polar winds: bring _____ air from the _____

15. Storms

- Occur during _____ pressure conditions
- Storm front= where 2 air masses of different _____ meet
 - Causes:
 - _____
 - Tornadoes
 - _____