Name		ather Webquest		
Name:				
		The Atmosphere	2	
Go to http://www.ducksters.com/sci	•			
The earth is surrounded by a				The atmosphere is
veryto holp				
to help		-		
The atmosphere absorbs the			-	
atmosphere helping the	to sta	ay warm, called the	9	Effect.
What gasses that make up the	e atmosphere (g	give the percentage	es!)	
2. What are the five main layers	of the atmosphe	ere?		
3. Which layer is closest to space	e?			
4. Which layer is the hottest layer	er?			
5. Which layer is the coldest layer	er?			
Go to http://www.weatherw 6. What are clouds?				
		·············		
Fill in the blanks on the following	Chart:			
Cloud Group		Cloud Heigh	nt	Cloud Types
High Clouds =	Above	feet		Cirrostratus Cirrocumulus
Clouds = Alto		feet to 18,000		Altostratus Altocumulus
Clouds =	Up to	feet		Stratocumulus Nimbostratus
-Cirrus clouds are the most	0	of the high clouds.	They are composed o	f
and are,		-		
-Stratus clouds are				
resemble that	doesn't	the (ground	mist or
-Cumulus clouds are	, puff\	clouds that look li	ike	 of floating
Cumulus c	clouds are often	called "		_". The base of each
cloud is a	nd the	of ea	ch cloud has	towers.

Weather Webquest

The Water Cycle

Go to http://resources.woodlands-junior.kent.sch.uk/homework/swater.html

use the six important processes definitions to answer the	e following questions.
8. What occurs when a gas is changed into a liquid?	
9. What is the water that runs off the surface of the land lakes called? ———————————————————————————————————	d, and flows downhill into streams, rivers, ponds and
10. What is the process of evaporation through plant lea	ves called?
11. What is the opposite of evaporation?	
12. What is the process of liquid turning into a gas called	J?
13. What is it called when rain drops fall to the earth?	
<u>Fron</u>	<u>nts</u>
Go to http://www.phschool.com/atschool/phsciexp/active read the description and watch the simulation.	art/weather fronts/ Click on each type of front and
14. When do cold fronts occur? (read the description at t	the top for cold front)
15. A)Draw a stationary front in the box below:	B) Draw a warm front in the box below:
16. Describe what happens in an occluded front	
Go to https://eo.ucar.edu/kids/sky/air5.htm	
17. A front is a warm-cold air	with the colder air replacing the warmer.
As a cold front moves into an area, the	
warm air that it is	
18. What color is represented on a weather map for cold the map:	l? Draw what it might look like on
19. A front is the boundary between _	and cool (or cold) air when the warm
is replacing the cold air	air at the surface
above the air mass, making	and storms.
20. What color is represented on a weather map for warr on the map:	m? Draw what it might look like
Stori	<u>ms</u>
Go to http://www.exploringweather.com/hurricanes.html	
21. How long can a hurricane be?	
22. How fast are the average winds in a hurricane?	
23. How fast do hurricanes move?	
24. Draw a picture of a hurricane:	

Weather Webquest

Click on tornadoes	on the top bar.			
25. What is a torna	do?			
26. About how man	y devastating tornadoes are th	ere in a year?		
	o(that doesn't work))What is a	-		
Click on Thundersto				
A	is a storm with	and	It's	produced by a
	cloud, usually producing	winds,		_ rain and
sometimes	The ingredi	ients used to make a thu	understorm are	
unstable	and lift. You no	eed moisture to form		and rain. You
need	air that is relatively _		and can rise	Finally,
you need	. This can form from	, sea		or mountains.
	<u>Wi</u>	nds/Climate		
Go to http://www.es	chooltoday.com/winds/types-of	f-winds.html		
Local Winds				
	inds are those that are			
	, water			
	foreca			
	move from			just hours. Good
	winds are			
	_, and mountain and valley bre	eezes. Local	cover very	short distances.
Global Winds				
	inds are really			
	of the earth's rotation, the	of the	e earth and the sur	n's
	power.			
Label the circle belo	w with the winds, longitude de	grees, and arrows.		
			_	
	/		\	
	/		\	
	/		\	

Weather Webquest

28. What is a doldrum?				
Click on Land and Sea Breezes on the left				
29. Does water or land take more time to heat up? Draw the sea breeze Draw the land breeze				
Draw the sea breeze				
30. Describe how the sea breeze occurs:				
31. Describe how the land breeze occurs:				
Weather Tools Go to http://www.weatherwizkids.com/weather-instruments.htm 32. What is an ANEMOMETER used to measure?				
34. What are some noticeable differences between the weather vane and the anemometer?				
The Anemometer Weather Vane				
35. What does a thermometer measure? 36. Describe a SLING PSYCHROMETER				
37. What does a barometer measure?				
38. What does a rain gauge measure?				

Weather Webquest Weather Maps

Go to http://www.weatherwizkids.com/weather-forecasting.htm

	are used on my at weather observing		s as snorthand for the
Label the following blan			
Weather* —	Wind* 57 107 → 6 -6 Press	sure trend (mb)*	
41. What is a low press 42. How is a low press	sure represented on a map? sure system? ure represented on a map? on of humidity? e chart:		
1.)	latitudes (P)	poleward of 60	north and south
	(T) - located	•	
	(c) - located over		
4.) Marine (m)	over the		
44. What is a front?			
45. Draw what a cold fr	ront would look like on the map	belowwhat color would	it be?
46. Draw what a warm	front would look like on the map	belowwhat color woul	d it be?
47. Draw what a station	nary front would look like on the	map.	

Weather Webquest Greenhouse Effect

Go to http://climatekids.nasa.gov/review/greenhouse-effect/

48. How is a greenhouse warmed	? (even during the winte	r months!!)	
atmos	ohere does the same thi	ng as the	Gases in
the			
of a	does. During the _	, th	ne shines
through the atmosphere. Earth's _		_ warms up in the sunligh	nt. At,
Earth's	_ cools, releasing the _	back	into the air. But
of the heat is	_		
That	s what keeps our Earth	a	and cozy
degrees			•
sun's rays heating earth is rad warm particles to expand/becons causing circulation of heat end or convection?? Google it if you the last paragraph!	ome lighter and rise and ergy??	cool particles to contract/	become heavier and sink (conduction
Is it warm in here or is it just me?			
You might think	degrees Fahrenheit is p	oretty	. Or, you might think that's
warm. It	on what you are used	to. That temperature wou	ıld all the
Arctic ice. Yes, it's colder than	n degrees in a lot of places, and hotter than		
degrees in a lot of			