## **Atmosphere and Heat Transfer Web Quest**

**Directions:** Click on the link above each set questions to find the answers.

## **Layers of the Atmosphere**

http://www.windows.ucar.edu/tour/link=/earth/Atmosphere/layers.html

1. Name the five layers of the atmosphere:	
a	
b	
c	
d	
e	(some scientist consider this layer to be part of
space)	
2. Click on the words "atmosphere" and each layer of	f the atmosphere to fill in the blanks below:
a. What are the two main gases found in the atmosph	nere?
1	
2.	
	region of the Earth's atmosphere and is where
occurs	
c. The stratosphere contains the	which absorbs
· <del></del>	Look at the diagram:
and can fly in the	stratosphere.
d. As you go higher in the mesosphere, the temperat	ure becomes Scientists do not
know much about the mesosphere, but they do know	that burn up in this layer.
e. The thermosphere contains a layer of charged par	ticles called the which
makes communication by	possible and is home to the
(Northern Lights). This is the layer in which	fly.
f. In the exosphere the atmosphere is very	as it begins to fade into space.
$\underline{\text{http://earthguide.ucsd.edu/earthguide/diagrams/atmosphile}}$	osphere/index.html
3. Look at the diagram and click "layer Names – Sho	w It." List the height span of each layer:
a. Troposphere	
b. Stratosphere	<del></del>
c. Mesosphere	
d. Thermosphere	
4. Click "Temperatures – Show it". What happens to	the temperature in each layer (does it get hotter or colder?)?
a. Troposphere	<del></del>
b. Stratosphere	<del> </del>
c. Mesosphere	
d. Thermosphere	

## **Heat Transfer**



http://www.wisc-online.com/objects/index\_tj.asp?objID=SCE304

<ul><li>5. Conduction is the transfer of heat between</li><li>6. Why does the hand need an oven mitt in order to pick up the pot from the stove?</li></ul>			
Good	<u>Poor</u>		
1	1		
2	2		
3	3	· · · · · · · · · · · · · · · · · · ·	
4	4	<del></del>	
8. Convection is the up and down movement of _heat transfer.	and	caused by	
9. What happens to the air as the stove heats it	?		
11. What happens to the air as it gets farther fro	m the heat source?		
12. List four examples of convection:			
1			
2			
4			
13. When	travel throu	gh space it is called radiation	
14. What happens to the temperature of the house	se as the sun's radiant energy touch	nes it?	
15. List three examples of radiation:			
1			
2			
3			