

Name: _____

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 the atmosphere to fill in the blanks below:

a. What are the two main gases found in the atmosphere?

1. _____
2. _____

b. The troposphere is the _____ region of the Earth's atmosphere and is where _____ occurs.

c. The stratosphere contains the _____ which absorbs _____. Look at the diagram: _____ and _____ can fly in the stratosphere.

d. As you go higher in the mesosphere, the temperature 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 particles 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.

<http://earthguide.ucsd.edu/earthguide/diagrams/atmosphere/index.html>

3. Look at the diagram and click “layer Names – Show It.” List the height span of each layer:

- a. Troposphere _____
- b. Stratosphere _____
- 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 _____
- b. Stratosphere _____
- c. Mesosphere _____
- d. Thermosphere _____