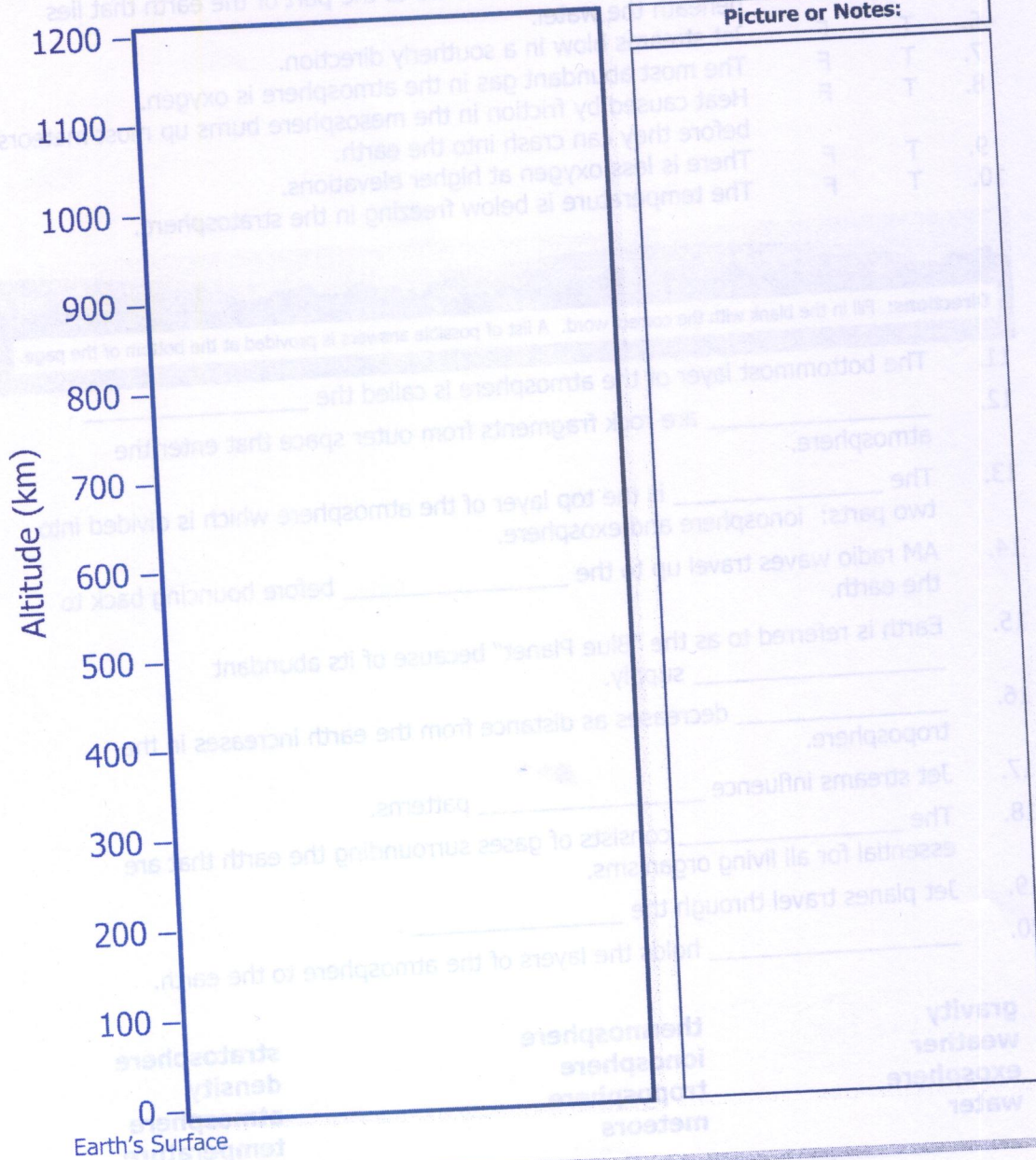


# Atmospheric Layers

**Directions:** Color the boxes in the key with colored pencils. Choose colors according to the temperature of each layer. Now use the colors chosen in the key to draw the atmospheric layers in the diagram. Draw lines to distinguish where the layers begin and end. To the right of the layer, draw a picture or note some events which may occur in the layer (example: meteor burning up in mesosphere).

Key

| Mesosphere | Stratosphere | Troposphere | Magnetosphere | Ionosphere | Exosphere | Thermosphere |
|------------|--------------|-------------|---------------|------------|-----------|--------------|
|            |              |             |               |            |           |              |

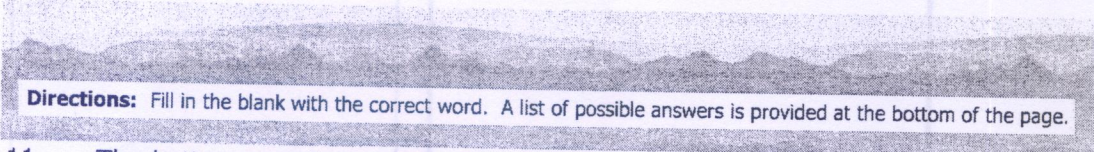




### Posttest

**Directions:** Decide whether the answer is True (T) or False (F).

- 1. T F The troposphere is warm due to the conduction of heat on the earth's surface.
- 2. T F The air closest to the earth is less dense than air at higher elevations in the atmosphere.
- 3. T F The zone of the earth in which life exists is relatively small.
- 4. T F The ozone layer absorbs a great deal of the ultraviolet radiation.
- 5. T F The term hydrosphere refers to the part of the earth that lies beneath the water.
- 6. T F Jet streams blow in a southerly direction.
- 7. T F The most abundant gas in the atmosphere is oxygen.
- 8. T F Heat caused by friction in the mesosphere burns up most meteors before they can crash into the earth.
- 9. T F There is less oxygen at higher elevations.
- 10. T F The temperature is below freezing in the stratosphere.



**Directions:** Fill in the blank with the correct word. A list of possible answers is provided at the bottom of the page.

- 11. The bottommost layer of the atmosphere is called the \_\_\_\_\_.
- 12. \_\_\_\_\_ are rock fragments from outer space that enter the atmosphere.
- 13. The \_\_\_\_\_ is the top layer of the atmosphere which is divided into two parts: ionosphere and exosphere.
- 14. AM radio waves travel up to the \_\_\_\_\_ before bouncing back to the earth.
- 15. Earth is referred to as the "Blue Planet" because of its abundant \_\_\_\_\_ supply.
- 16. \_\_\_\_\_ decreases as distance from the earth increases in the troposphere.
- 17. Jet streams influence \_\_\_\_\_ patterns.
- 18. The \_\_\_\_\_ consists of gases surrounding the earth that are essential for all living organisms.
- 19. Jet planes travel through the \_\_\_\_\_.
- 20. \_\_\_\_\_ holds the layers of the atmosphere to the earth.

gravity  
 weather  
 exosphere  
 water

thermosphere  
 ionosphere  
 troposphere  
 meteors

stratosphere  
 density  
 atmosphere  
 temperature