Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Atmosphere Layers**

1. Explore the gases that make up our atmosphere <http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/earth/earthsatmosphereact.shtml>

Watch the video and fill in the blanks below:

a. Earth’s Atmosphere is \_\_\_\_\_% Nitrogen and \_\_\_\_\_% Oxygen and a small amount of A\_\_\_\_\_\_\_\_\_\_ and C\_\_\_\_\_\_\_\_\_\_ D\_\_\_\_\_\_\_\_\_.

2. Explore Earth’s Atmosphere

<http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/earths-atmosphere.htm>

Watch the video and write down all the important facts about each of the atmosphere layers. Then watch the “Air Up There” video and write down additional facts about each layer.

What is the atmosphere?

a. Exosphere

b. Thermosphere

c. Mesosphere

d. Stratosphere

e. Troposphere

3. Explore the layers of the atmosphere

<http://aim.hamptonu.edu/outreach/flash/atmosphere.swf>

Drag and drop the items into the correct layer of the atmosphere.

a. Most of the objects would be found in the layer of the atmosphere called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_phere.

4. Investigate the layers of the atmosphere

<http://www.glencoe.com/sites/common_assets/science/virtual_labs/ES14/ES14.html>

Drag the balloon or rocket to the following altitudes, click launch and record the air temperature and pressure when the balloon or rocket stops below, then record the phenomenon in each layer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Altitude | Layer | Temperature | Pressure | Phenomenon |
| 10 km | Troposphere |  |  |  |
| 25 km | Stratosphere |  |  |  |
| 60 km | Mesosphere |  |  | N/A |
| 200 km | Thermosphere |  |  |  |