**Unit 3 Lesson 2 – Layers of the Atmosphere**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period\_\_\_\_\_\_\_\_\_\_\_\_**

**Directions: Follow along in class to fill out the questions and tables.**

1. What percent of air molecules are found in the bottom 50 kilometers of Earth’s atmosphere?

|  |  |  |
| --- | --- | --- |
| **Layer of the Atmosphere** | **Description** | **Interesting Fact** |
| Thermosphere |  |  |
| Mesosphere |  |  |
| Stratosphere |  |  |
| Troposphere |  |  |

1. Predict how you think air temperature changes at different altitudes?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Altitude** | | **Temperature (Degrees Celsius)** | | **Atmospheric Layer** |
| 0 km | |  | |  |
| 10 km | |  | |  |
| 20 km | |  | |  |
| 30 km | |  | |  |
| 1. km | |  | |  |
| 50 km | |  | |  |
| 60 km | |  | |  |
| **Altitude** | **Temperature** | | **Atmospheric Layer** | |
| 70 km |  | |  | |
| 80 km |  | |  | |
| 90 km |  | |  | |
| 100 km |  | |  | |

1. Analyze the results of the above table. How does temperature change in each of the 4 layers of the atmosphere?
2. Why isn’t air pressure a good way to divide the layers of the Earth’s atmosphere?
3. Draw a picture of the 4 layers of the Earth’s atmosphere in the below space. Label each layer and describe the characteristic of that layer. Use a separate color for each layer.