

## **Layers of the Atmosphere**

**Purpose – Students will research and examine the layers of the Earth’s present day atmosphere.**

**Procedure –**

- 1. Utilize the internet to research the layers of the Earth.**
- 2. Record information on the chart.**
- 3. Using the information, illustrate the layers of the atmosphere on the graph.**
- 4. With colored pencils, fill in the layers at the appropriate heights from the Earth’s surface.**
- 5. Code the same pencil color in the box found inside the chart.**
- 6. Illustrate the changes in particle density as one moves through the atmosphere using dots.**
- 7. Sketch the following in the appropriate layers**
  - Aurora**
  - Space shuttle**
  - Mt. Everest**
  - Meteors**
  - Air planes**
  - Weather balloons**
- 8. Represent the fluctuations in temperatures through the layers.**

### **Georgia Performance Standards**

**SM1. Students will relate the formation, structure and composition of Earth’s atmosphere to the processes that cause weather.**

**b. Examine the chemical composition, location and characteristics of the layers of Earth’s present day atmosphere.**

## Layers of the Atmosphere

	Location (km above Earth)	Temperature	Density	Chemical Composition	Characteristics
<b>Exosphere</b>  Key Color <input type="checkbox"/>					
<b>Thermosphere</b>  Key Color <input type="checkbox"/>					
<b>Ionosphere</b>  Key Color <input type="checkbox"/>					
<b>Mesosphere</b>  Key Color <input type="checkbox"/>					
<b>Stratosphere</b>  Key Color <input type="checkbox"/>					
<b>Troposphere</b>  Key Color <input type="checkbox"/>					

Suggested Link

<http://www.srh.weather.gov/jetstream/atmos/layers.htm>

Write other links used below

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