|  |  |
| --- | --- |
| Auroras form within this layer | **thermosphere** |
| This is the hottest layer of our atmosphere | **thermosphere** |
| as you rise through this layer, temperatures increase to 3,600 degrees Farenheit at the top | **thermosphere** |
| the Space Shuttle orbits in this layer | **thermosphere** |
| the prefix for this layer means ‘ heat’ | **thermosphere** |
| this is the layer directly below the exosphere | **thermosphere** |

|  |  |
| --- | --- |
| This layer is where satellites orbit Earth | **exosphere** |
| This layer marks the ‘edge’ of outer space | **exosphere** |
| The air pressure is lowest in this layer | **exosphere** |
| this layer has very few molecules because they can escape Earth’s gravity and go into space | **exosphere** |
| the prefix for this layer means ‘out’ | **exosphere** |
| data about temperatures in this layer are difficult to gather because there are very few molecules in this layer | **exosphere** |

|  |  |
| --- | --- |
| This layer is very thick and slows down meteors | **mesosphere** |
| the prefix for this layer means ‘middle’ | **mesosphere** |
| this is the third layer of the atmosphere | **mesosphere** |
| the higher you go in this middle layer, the temperatures decrease | **mesosphere** |
| this layer is directly above the stratosphere | **mesosphere** |
| this layer has the coldest temperatures | **mesosphere** |

|  |  |
| --- | --- |
| Temps decrease as you rise through this layer | **troposphere** |
| This is the lowest layer  | **troposphere** |
| All of the Earth’s weather occurs within this layer | **troposphere** |
| The air pressure is greatest in this layer | **troposphere** |
| The prefix for this layer means ‘changing’ | **troposphere** |
| This layer extends 6-20 km from the surface of Earth | **troposphere** |

|  |  |
| --- | --- |
| The ozone layer is contained within this layer | **stratosphere** |
| there is very little water in this layer | **stratosphere** |
| temperatures in this layer rise as you get higher in this layer due to the formation of ozone | **stratosphere** |
| the prefix for this word means ‘layered’ | **stratosphere** |
| there is no mixing of gases in this part of the atmosphere, so the gases are layered | **stratosphere** |
| weather balloons can travel to this part of the atmosphere to gather data | **stratosphere** |