Name: _____ Date: _____

Science

Layers of the Atmosphere

The layer of air that surrounds our planet is called the atmosphere. The job of the atmosphere is to protect the Earth from anything that may fall from the sky.

The atmosphere has 6 layers.

Layers of the Atmosphere	Description
Troposphere	This is the layer that is closest to the Earth. This is the air we play, work, live in, and breathe. Most weather conditions happen here.
Stratosphere	This is the second layer. It contains OZONE, a special gas that protects Earth from ultraviolent rays from the sun.
Mesos0here	This is the third layer and it is the coldest layer where meteoroids blow up and are called meteors or shooting stars.
Thermosphere	This is the fourth layer and is the hottest layer.
Ionosphere	This layer begins in the mesosphere and extends upward through the thermosphere. It contains electrically charged particles called Ions. This layer plays an important role in making radio and television communications possible.
Exosphere	This is this sixth layer. It is also known as outer space. In this layer the planets, moons, stars and other celestial objects are found.

Read and answer the following questions correctly.

1. What is the atmosphere?

2. What is the function of the atmosphere?

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3. Read each description below. Write the layer of the atmosphere next to its matching description. Use the words in the box to help you.

Ionosphere.	Mesosphere	
Stratosphere		Troposphere

Layer	Description
a.	Where ozone can be found
b.	Where communications are made possible
c.	Where most weather conditions happen

4. List TWO (2) space objects found in the exosphere.

_____ _____

5. What is the difference in temperature between the mesosphere and the thermosphere?

6. Complete the chart to show cause and effect.

CAUSE		EFFECT
meteoroids blow up in the mesosphere therefore	→	

7. Read each statement below. Writ TRUE if the statement is true or FALSE if the statement is false on the lines provided.

a. _____ Ions are electrically charged particles.

b. _____ The Exosphere is also known as outer space.

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