

Student Link


Lesson Activity for Grade 6

(*Science: Windows to the Universe: Atmosphere*)

Student Name: _____

INSTRUCTIONS

So what's up with all that blue space in the sky also known as the atmosphere? This lesson will get you a little more familiar with that empty space in the sky...

- Starting from the Grade 6 StudentLink menu, click on **"Science"**.
 - Next, click on **"Windows: Universe"** under the "Sky and Space" column.
- Then click on  and then **"Atmosphere"**.

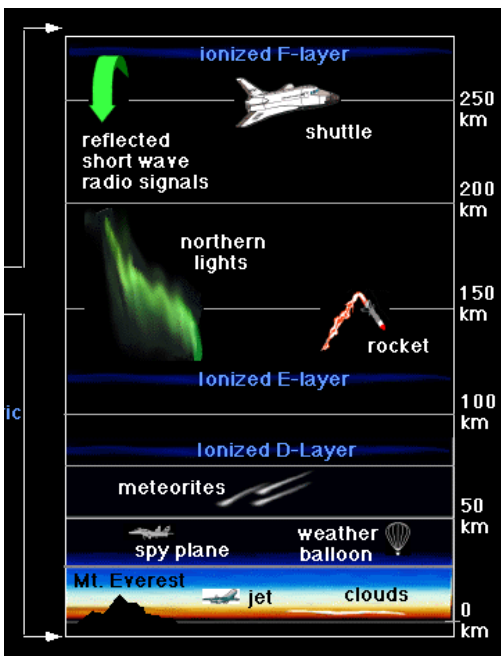


The Atmosphere protects humans from many harmful rays. Can you name some of them? (Hint: We use sunscreen to protect us from them too).

List the three components that make up our atmosphere:

- _____
- _____
- _____

3. Now, at the bottom of the description, click on [layers](#) to learn more about what makes up the atmosphere. Using the picture, list the five layers of the atmosphere and draw an arrow to point to the location they are found.



Which of the five layers contains over half the atmosphere?

Space meets the atmosphere at the end of the _____.

Why do you think the stratosphere might be one of the most important layers of the atmosphere? What are humans doing to harm this layer?

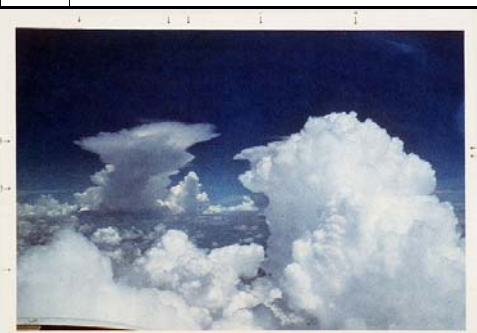
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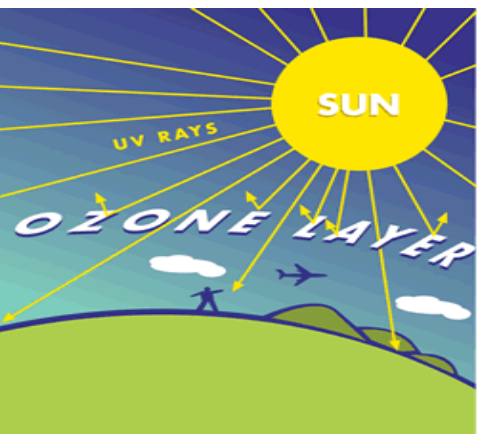
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4. Now, click on [Troposphere](#) to learn more about this layer. This is the layer of the atmosphere that contains weather. The sun heats the Earth and this heat is dissipated into this layer of the atmosphere.



R. A. Keen, above southern Florida (U.S.A.), at about 6100 m, 29 August 1978, 1300 hours (towards SE)



5. Click on the back button and then click on [Stratosphere](#).

What is the most important part of the Stratosphere?

At what altitude does the Stratosphere start?

6. Now let's examine in closer detail the most important part of the Stratosphere, the Ozone Layer...Click on [Ozone](#).

What atoms is the Ozone layer made up of?

The Ozone layer exists in the Stratosphere in a _____ state.

Describe the function of the Ozone layer and how this might be important to humans.

What would probably not exist today if it weren't for the Ozone layer?

7. Click the back button twice, and then click on [Mesosphere](#).

What is the coldest layer of this level of the atmosphere?

8. Click back again, and then select [Thermosphere](#).

Is there any air located in this level of the atmosphere?

YES/NO

Why is the temperature in this layer sensitive to solar activity?