WEB QUEST

An activity to help you learn about the very important body of air that surrounds you.

"Atmospheric Windows"

Start your quest by going to the following web site.

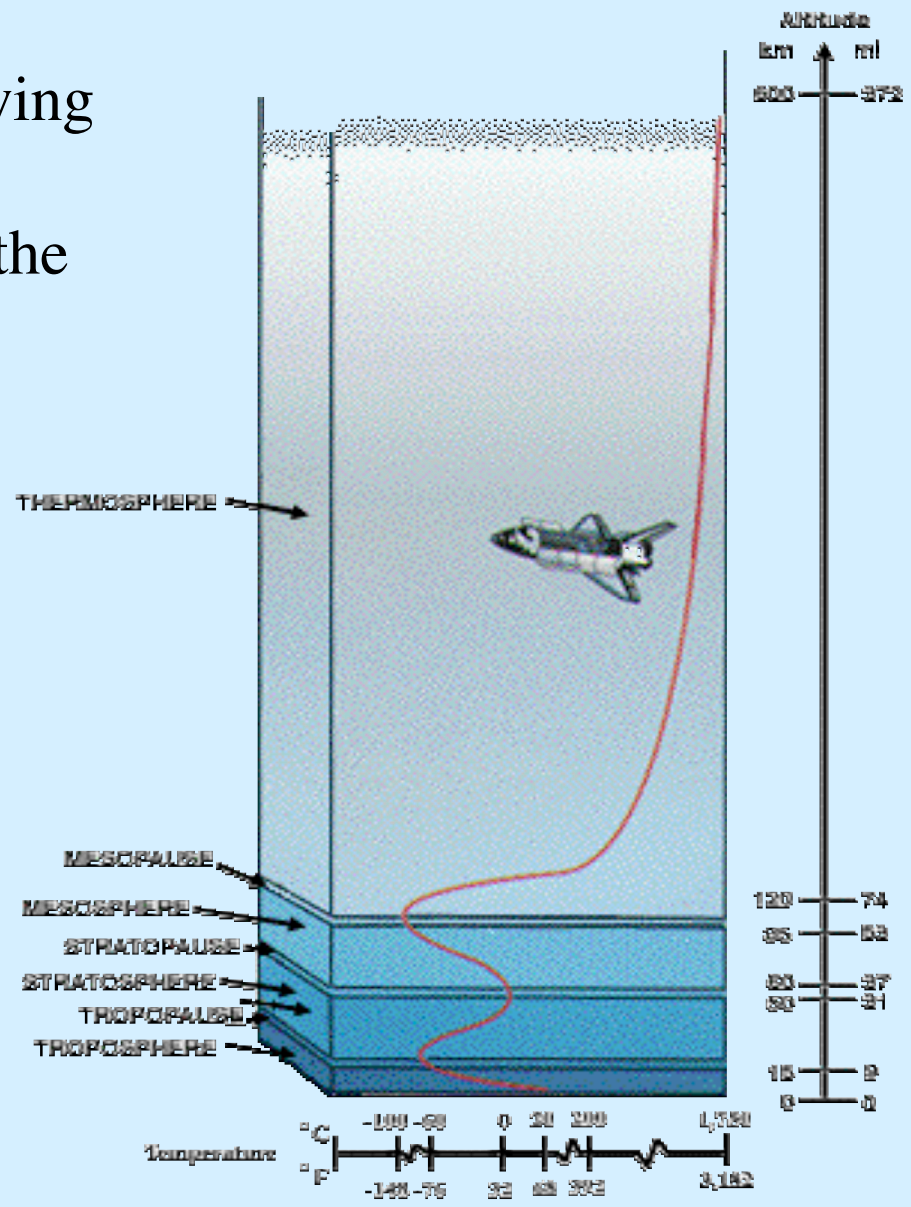
http://www.nas.nasa.gov/About/Education/Ozone/ozonelayer.html

This is a page from the SpaceLinks homepage. Read through the information on this page and its links. You will need to answer ALL of the questions on the following slide. All of the answers to the questions are on this web site. Good Luck!!

QUESTIONS TO ANSWER

1. What is ozone and where in the atmosphere is it located?
2. What are the four layers of the atmosphere?
3. What type of radiation does the ozone keep from hitting the Earth?
4. What are four things will influence the amount of ozone in the atmosphere? Describe how they influence the ozone amounts.
5. Give one reason why it is important that the ozone blocks out ultraviolet light.

6. Use this picture and the following web site to describe the characteristics of each of the atmospheric layers.



http://liftoff.msfc.nasa.gov/academy/space/atmosphere.html

7. How does the atmosphere aid life on Earth?

How does the Sun's radiation affect you?

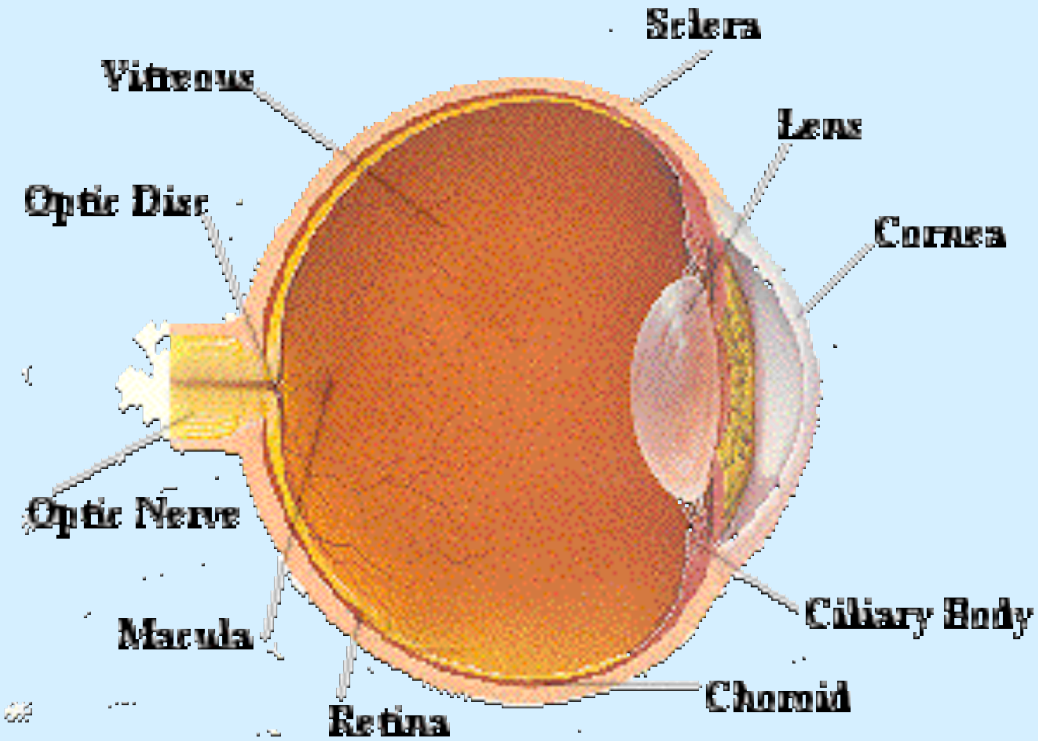
Your eyes

Click on the key words to reveal web sites and questions for you to look at and answer.

Disease

Food

YOUR EYE



Click here for the next slide about your eye.

Your Eye

Click the eye for more information

Questions:

1. **How does the human eye use the visble light in the EM spectrum?**
2. **How does the light get focused to make an image?**
3. **What is the job of the retina?**
4. **What is the job of the brain?**

Disease

Click on to the web site below. Read through the web site
And then answer the following questions.

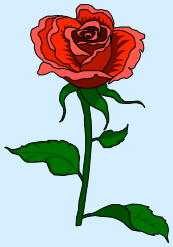
Web site one

Web site two

Questions:

1. **How does the UV radiation affect DNA?**
2. **How do human cells respond to the UV damage?**
3. **What three things does the amount of UVB radiation that hits a specific site depend on?**
4. **Describe two ways that UVB light may affect plant life.**
5. **How has UVB been linked to cancer and eye damage?**

Photosynthesis



Click on the rose to take you to an important link.

QUESTIONS

1. **Why is it so important to plant that all of the colors of visible light make it through the atmosphere to the Earth's surface?**
2. **Why is this important to humans?**
3. **Why are leaves green?**
4. **What is photosynthesis?**

Eye picture from http://www.entisoft.com/Privacy.HTM