

The Atmosphere and You Guided Notes

Directions: Preview the notes before reading the lesson. As you read the lesson, fill in the guided notes.

1. Why is the Sky Blue?

Talk Like a Scientist: Record any key terms and definitions that are unfamiliar to you.

Key Term(s)	Definition(s)

2. Air Supply

Focus Question: What is the composition and structure of the atmosphere?

- What two gases make up the majority of Earth's atmosphere?
- List three important functions of the atmosphere.

3. Atmosphere, Protector of Life

Focus Question: What are the functions of each layer of the atmosphere?

- Write a mnemonic device to help you remember the layers in order from closest to farthest from Earth.

Complete the table to describe each layer of the atmosphere.

Layer	Description
Troposphere	
Stratosphere	
Mesosphere	
Thermosphere	
Exosphere	

- List at least one object or even that occurs in each layer.
 - Troposphere:
 - Stratosphere:
 - Ozone layer:

- Mesosphere:
- Thermosphere:
- Exosphere:

4. SPF Layer

Focus Question: How does the ozone layer protect Earth?

- Describe why the ozone layer can be compared to Earth's built-in "sunscreen."
- Which layer of the atmosphere contains the ozone layer?
- Why is the ozone layer important?
- List the negative impacts of a hole in the ozone layer.

5. Sky High Protection

Focus Question: How does the atmosphere help insulate the Earth?

- Describe the greenhouse effect.
- How does the atmosphere help insulate Earth?

6. The Sun: Friend and Foe

Focus Question: How can you protect yourself from harmful sun exposure?

- List three ways to protect yourself from the hazardous effects of the sun.

7. Summary and Assessment

Use your notes and write two questions that you think could be asked during your discussion-based assessment. Record your two questions below.

Questions

--