

Intro to Atmosphere Review

KEY

Earth Science

For the upcoming test, you should be able to:

1. Explain the difference between **weather** and **climate**. Provide examples of each.

weather = the general condition of the atmosphere at a particular time and place
climate = the general condition of the atmosphere over many years

2. Identify the 3 main atmospheric gases and their percentages (%).

$N_2 = 78\%$ $O_2 = 21\%$

3. Describe the major **oxygen** reservoir and how O cycles between them.

*atmosphere, *water (solid, liquid, gas), plants/animals

Describe the major **nitrogen** reservoir and how N cycles between them.

*atmosphere, *ground (with animal waste, living plants, fertilizer, dead plants/animals, animal/liv. animals, rain forest, live plants, groundwater, surface water)

4. List the importance of the following components in the atmosphere:

- **H₂O-vapor**

absorbs the sun's energy
 helps form clouds

- **Ozone**

absorbs UV rays

- **Atmospheric Dust**

scatters the sun's radiation
 condensation nuclei
 emitted from volcanoes
 dust blocks sun's rays and cool temps

5. Describe the following about **ozone**.

- It's main function in the atmosphere: How ozone is destroyed: How are we fixing it.

Ozone absorbs UV rays protects life on Earth. It's mostly destroyed by CFC's
 (washing and aerosols made for other refrigerators and air conditioners and hair sprays).
 Scientists monitoring the ozone by banning use of CFC's.

6. List the major characteristics and explain the **temperature** trend for each layer below.

Troposphere

temp ↓ as elevation ↑
 weather

Stratosphere

temp ↑ as elevation ↑
 ozone layer

Mesosphere

temp ↓ as elevation ↑
 coldest layer

Thermosphere

temp ↑ as elevation ↑
 ionosphere
 fluorescent ionosphere that glows

7. Describe what **air pressure** is and how it changes as you move UP through the atmosphere. (eg. weight of the air above pushing down on us; it decreases with **altitude** as there is less air above you the higher up you go.

8. Describe how each layer of the atmosphere selectively **filters** out part of the EM spectrum.

Thermosphere & Mesosphere

X, O absorbs shorter radiation like gamma, UV, x-rays

Stratosphere

ozone absorbs UV

Troposphere

absorbs longer radiation and light waves
 eg. clouds, water vapor, and CO₂

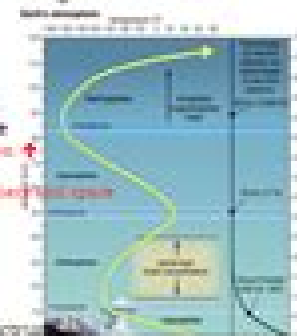
9. Explain what causes scattering of light in the atmosphere and how it produces blue skies during daytime and red/orange sunrises and sunsets. (eg. and gas particles scatter solar radiation.

10. Describe how **albedo** differs between urban (buildings) areas and rural (fields) areas.

Dark colored objects absorb more heat; light-colored objects absorb less heat. If a city has more asphalt roads and parking lots, they absorb heat more than rural areas.

Explain how albedo helps cause **colder winters** temperatures in Michigan, but **warmer summer** temps.

The high albedo of snow and help temps stay low in winter. Grass and blacktop have low albedo and will help temps to rise.



Earth Atmosphere Study Guide Answer Key

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