

Name _____

Date _____

Data From Air Samples

Table 1: About 80–120 km above the earth is known as the _____

	Nitrogen gas (%)	Oxygen gas (%)	Argon gas (%)	Water vapor (%)	Temperature (°C)	Pressure (hPa)
Upper						
Middle						
Lower						
Mean						

Table 2: About 50–80 km above the earth is known as the _____

	Nitrogen gas (%)	Oxygen gas (%)	Argon gas (%)	Water vapor (%)	Temperature (°C)	Pressure (hPa)
Upper						
Middle						
Lower						
Mean						

Table 3: About 12–50 km above the earth is known as the _____

	Nitrogen gas (%)	Oxygen gas (%)	Argon gas (%)	Water vapor (%)	Temperature (°C)	Pressure (hPa)
Upper						
Middle						
Lower						
Mean						

Table 4: Up to 12 km above the earth is known as the _____

	Nitrogen gas (%)	Oxygen gas (%)	Argon gas (%)	Water vapor (%)	Temperature (°C)	Pressure (hPa)
Upper						
Middle						
Lower						
Mean						

Activity 64: Analysis Questions

**Answer #2, 3 and 4 in complete sentences.*

1. Which layer of the atmosphere has:

a. the most water vapor? _____

b. the lowest pressure? _____

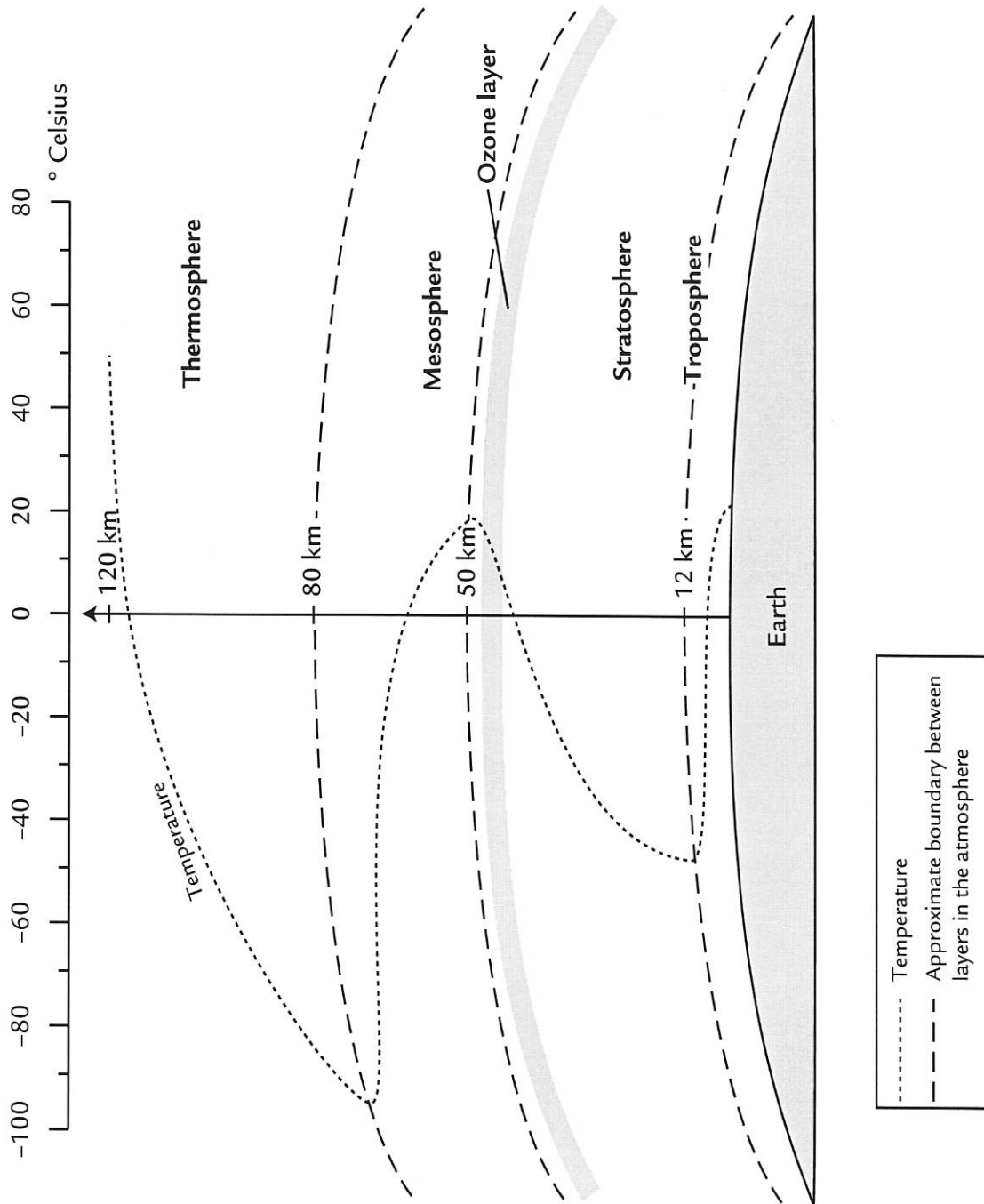
2. What remains the same in different layers of the atmosphere?

3. Scientists have divided the earth's atmosphere into different layers. What property of the atmosphere do you think these divisions are based on?

4. You collected data on four layers of the atmosphere. The atmosphere merges into outer space in an extremely thin upper layer known as the exosphere.

Which of the five layers of the atmosphere do people live in?

Graph of Atmospheric Layers and Temperature



Composition of the Earth's Atmosphere

Gases in the Earth's Atmosphere	Percent (by volume)
nitrogen	78.1
oxygen	20.9
water vapor*	0–4.0
argon	0.9
carbon dioxide	0.03
neon	0.002
helium	0.0005
methane*	0.0002
krypton	0.0001
hydrogen	0.00005
nitrous oxide*	0.00003
xenon	0.000009
ozone*	0.000004

*percentage varies with location and time