Date _____ Period _____ Name _____

ATMOSPHERE

1. Which best describes the chemical composition of Earth's atmosphere?

A 78% oxygen, 21% hydrogen, and 1% other gases

B 87% oxygen, 12% nitrogen, and 1% other gases

C 78% nitrogen, 21% oxygen, and 1% other gases

D 87% nitrogen, 12% oxygen, and 1% other gases

2. How is human activity affecting the composition of Earth's atmosphere?

A It appears to be increasing the amount of atmospheric carbon dioxide present today, due to the burning of fossil fuels.

B It appears to be increasing the amount of atmospheric carbon dioxide throughout human existence, because overpopulation means more people are exhaling.

C Scientists generally have no data indicating that human activity is affecting Earth's atmosphere.

D Human agriculture appears to be increasing oxygen and nitrogen levels in Earth's atmosphere.

3. The troposphere is the layer of the atmosphere closest to Earth's surface. Which of these would you expect to find in the troposphere?

A a shooting star

B extremely high temperatures

C clouds and rain

D the ionosphere

4. Which is NOT one of the four main layers of the atmosphere?

A troposphere

B thermosphere

C lithosphere

D mesosphere

5. What is the transfer of heat by vertical movements of air masses called?

A conduction

B radiation

C subduction

D convection

6. What is the primary source of energy that drives the water cycle?

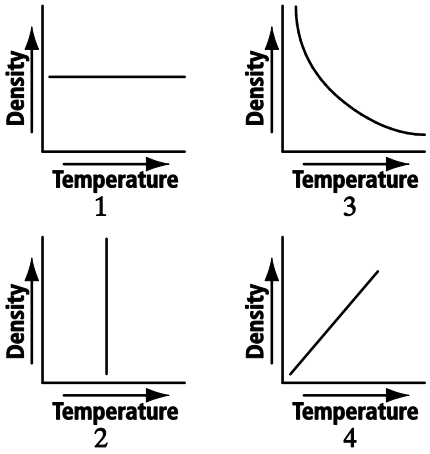
A carbon dioxide in Earth's atmosphere

B Earth's gravity

C heat radiating from Earth's interior

D the Sun

Base your answers to questions 7 and 8 on the graphs below.



7. Which graph represents the relationship between air density and air temperature?

A 1

B 2

C 3

D 4

8. If the graphs' *y*-axes were labeled *Air Pressure* instead of *Density,* which graph represents the relationship between air pressure and air temperature?

A 1

B 2

C 3

D 4

9. What causes wind?

A differences in humidity

B differences in elevation

C differences in rates of condensation

D differences in air pressure

STOP