

Earth Science Quiz: Atmospheric Circulation and Thermal Energy Transfer

Name: _____

Date: _____

Section: _____

_____ 1. In what form does **most** solar radiation reach Earth?

- a. Infrared light b. Microwaves c. Ultraviolet light d. Visible light

_____ 2. Which is not an efficient greenhouse gas?

- a. helium b. methane c. carbon dioxide d. water vapor

_____ 3. Ultraviolet radiation from the Sun heats the atmosphere. What other energy source supplies most of the energy that keeps the atmosphere warm?

- a. X-rays from sources in space b. Visible light from solar radiation
c. Radio waves from human activities d. Infrared radiation from Earth's surface

_____ 4. How would Earth be different if greenhouse gases were not present in the atmosphere?

- a. Earth would be much colder. b. Earth would be much wetter.
c. Earth would be much warmer. d. Earth would be about the same.

_____ 5. Earth receives energy from the Sun. Some of this energy is transferred from Earth back into space. Which process(es) cause(s) this energy transfer?

- a. conduction only b. radiation only
c. conduction and radiation d. conduction, convection, and radiation