Name _____ Date _____ Class _____

Content Practice A

LESSON 2

Energy Transfer in the Atmosphere

Directions: *On the line before each statement, write* T *if the statement is true or* F *if the statement is false.*

_____ **1.** Ninety-nine percent of the radiation from the Sun consists of visible light, ultraviolet light, and infrared light.

_____ **2.** Ultraviolet radiation has longer wavelengths than visible light.

_____ **3.** About 40 percent of incoming radiation is absorbed by gases and particles in the atmosphere.

_____ **4.** The ozone layer is located in the stratosphere.

_____ **5.** Solar radiation absorbed at Earth's surface is reemitted as infrared radiation.

_____ **6.** Without the greenhouse effect, Earth would be much warmer.

_____ **7.** The transfer of thermal energy by the movement of matter from one place to another is called convection.

_____ **8.** When ice melts, it releases thermal energy.

_____ **9.** When warm air rises, thermal energy is transferred to the atmosphere by conduction.

_____ **10.** Temperature inversions result from stable atmospheric conditions.

Name _____ Date _____ Class _____

Content Practice B

LESSON 2

Energy Transfer in the Atmosphere

Directions: *On each line, write the phrase that correctly completes each sentence.*

1. Ninety-nine percent of the radiation Earth receives from the Sun is _____.
2. About 20 percent of the radiation from the Sun is _____.
3. About 25 percent of radiation from the Sun is _____.
4. About 5 percent of the radiation from the Sun _____.
5. About 50 percent of the Sun's rays _____.
6. Absorbed radiation is reemitted as _____.

Directions: *Respond to each statement on the lines provided.*

7. **Explain** what *radiation balance* means.

8. **List** the three kinds of energy transfer and give an example of each.