

Activity

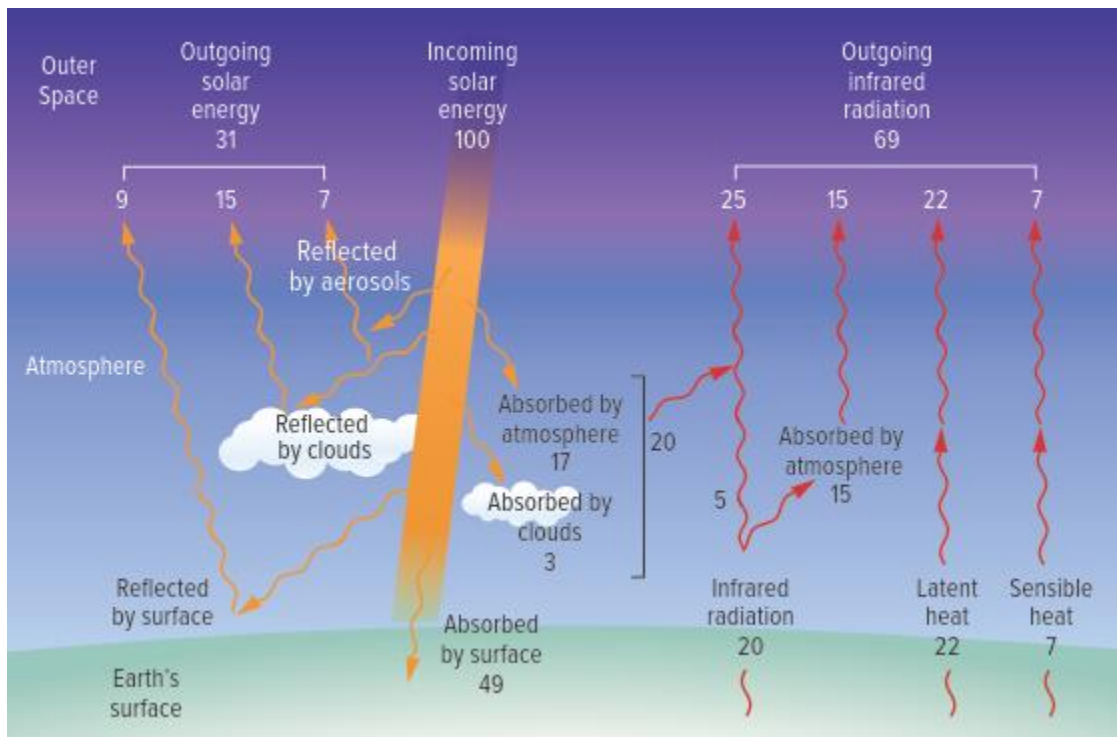
Analyzing Incoming and Outgoing Energy



Use **Figure 3.35** to answer the questions below with your partner or group.

1. What type of energy do the orange arrows represent?
2. What type of energy do the red arrows represent?
3. How can you verify that incoming and outgoing energy balance out?
4. Look up the terms *sensible* and *latent*. Record their meanings. Based on their meanings, what do you think the terms *sensible heat* and *latent heat* refer to in the lower right-hand corner of the figure?
5. a) How much solar energy is absorbed by the surface?
b) How much energy is radiated from the surface?
6. What percentage of incoming solar energy leaves Earth again over time?
7. Write a paragraph that describes a possible journey of the energy of a photon of solar energy through Earth's atmosphere.

Use Figure 3.35 to answer the questions below with your partner or group.



DATE:

NAME:

CLASS:

TOPIC 3.3

Activity: Analyzing Incoming and Outgoing Energy

BLM 3.3-2

1. What type of energy do the orange arrows represent?
2. What type of energy do the red arrows represent?
3. How can you verify that incoming and outgoing energy balance out?
4. Look up the terms sensible and latent. Record their meanings below.

Sensible:

Latent:

Based on their meanings, what do you think the terms sensible heat and latent heat refer to in the lower right-hand corner of the figure?

DATE:

NAME:

CLASS:

TOPIC 3.3

Activity: Analyzing Incoming and Outgoing Energy

BLM 3.3-2

5. a) How much solar energy is absorbed by the surface?

b) How much energy is radiated from the surface?

6. What percentage of incoming solar energy leaves Earth again over time?

7. Write a paragraph that describes a possible journey of the energy of a photon of solar energy through Earth's atmosphere.