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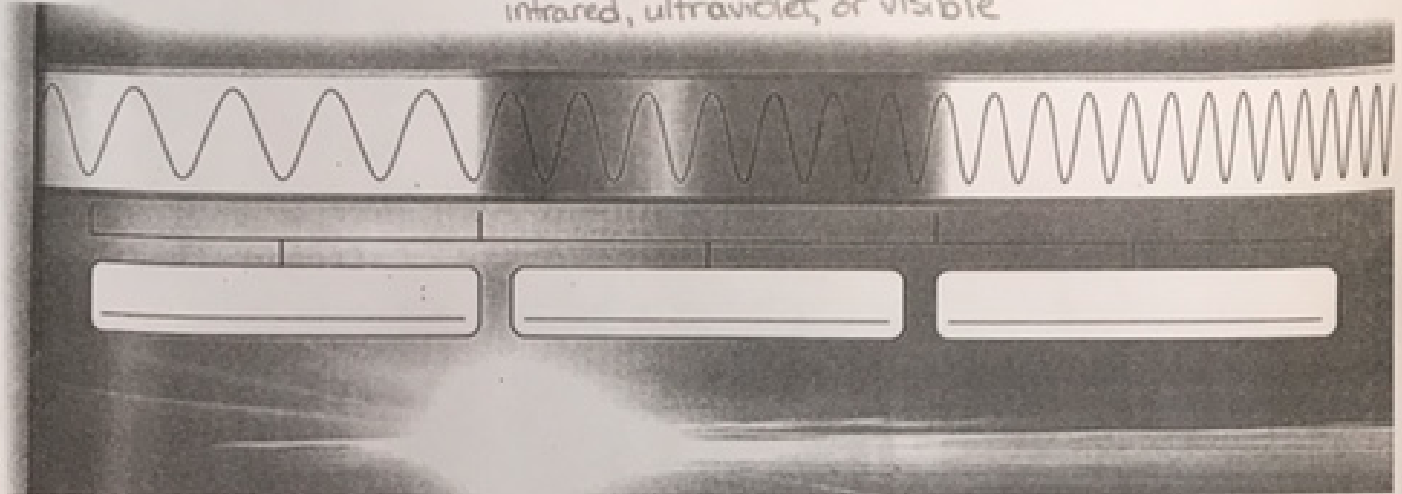
FIGURE 1

Radiation From the Sun

Energy travels to Earth as electromagnetic waves.

Identify Label the types of electromagnetic radiation in the diagram.

infrared, ultraviolet, or visible



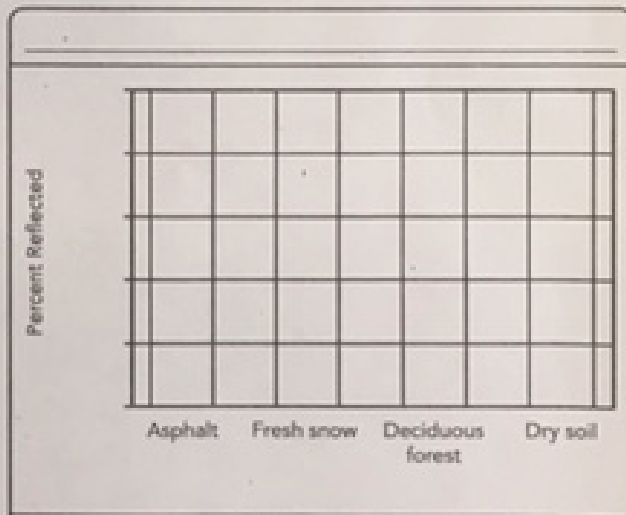
apply it!

The materials at Earth's surface shown below reflect different amounts of energy.

1 **Graph** Use the higher percentages below to draw a bar graph. Give it a title.

2 Based on your graph, which material reflects the most sunlight? Which absorbs the most?

3 **CHALLENGE** Predict what might happen if a forested area was replaced with an asphalt parking lot.



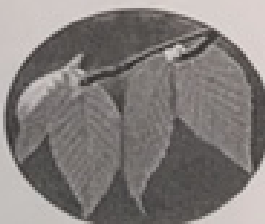
Asphalt

5-10% reflected



Fresh snow

80-90% reflected



Deciduous forest

15-20% reflected



Dry soil

20-25% reflected

See the "Energy in the Atmosphere" presentation for clearer, color images.

Greenhouse Gases

Greenhouse Effect

The greenhouse effect is a natural heat-trapping process.

Sequence Number each step in the diagram to show how the greenhouse effect takes place. Discuss the diagram with a partner.

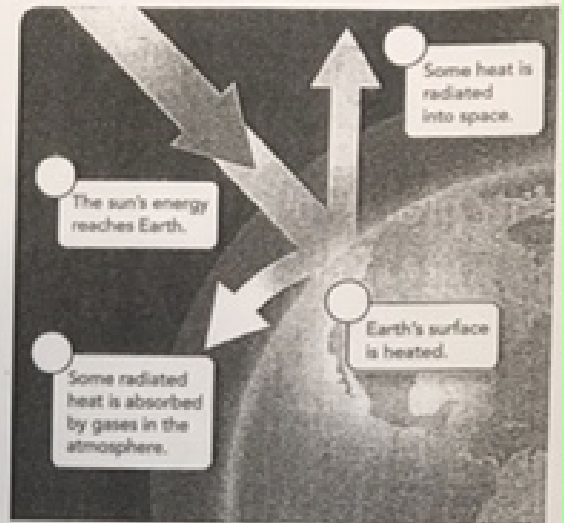


FIGURE 3
Energy at Earth's Surface
 Identify What's happening to energy in the lower atmosphere and at Earth's surface? Find out by using the words in the word bank below to complete each sentence.

Word Bank
 reflected absorbed radiated
 Words may be used more than once.

Draw Conclusions Using the diagram below, draw a conclusion about energy at Earth's surface.

Energy at Earth's Surface
 _____ % is _____

