

OnBoard *for Science*
ACADEMICS

Conduction, Convection, and Radiation

Teacher's Notes

OnBoard Resources

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Conduction

A hand is shown holding a metal rod horizontally. Below the rod, a Bunsen burner is lit with a flame. The bottom end of the rod is positioned just above the flame, illustrating the transfer of heat through the rod.

Test the conductivity of these materials

The diagram shows a testing setup. A beaker on the left contains water with a metal rod submerged. A digital display shows '0 seconds'. Below the beaker are four rods labeled 'GLASS', 'WOOD', and two unlabeled metal rods. A 'START' button is at the bottom.

What is radiation?

Slide 0

Heat transfer in the atmosphere

Slide 1

from the Sun heats Earth's surface.
 heats the air above Earth's surface.
 The warm air rises, cools, and then sinks, creating a current.

convection radiation conduction

Slide 2

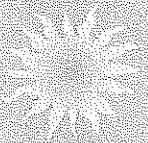
Conduction, convection, radiation review

Slide 3

		conduction
		convection
		radiation
		insulator
		convection current

Heat transfer in the atmosphere

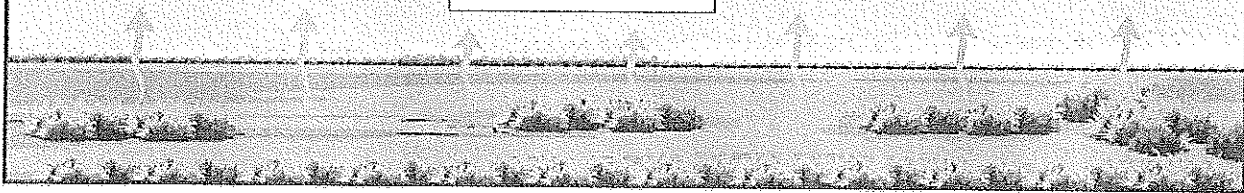
ANSWER



from the Sun heats Earth's surface.

heats the air above Earth's surface.

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creating a current.



convection radiation conduction

↑ DRAG