

Lesson Proposal Form – Winter Quarter 2012

Title of Lesson: It's getting hot, hot, HOT!

Grade Level: 6th Grade

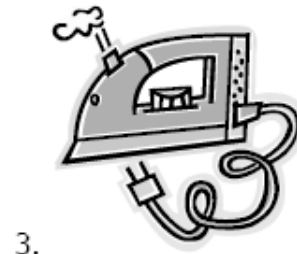
Subject(s): Earth Science

It's getting hot, hot, HOT!

Fill in the blanks using the correct form of heat transfer

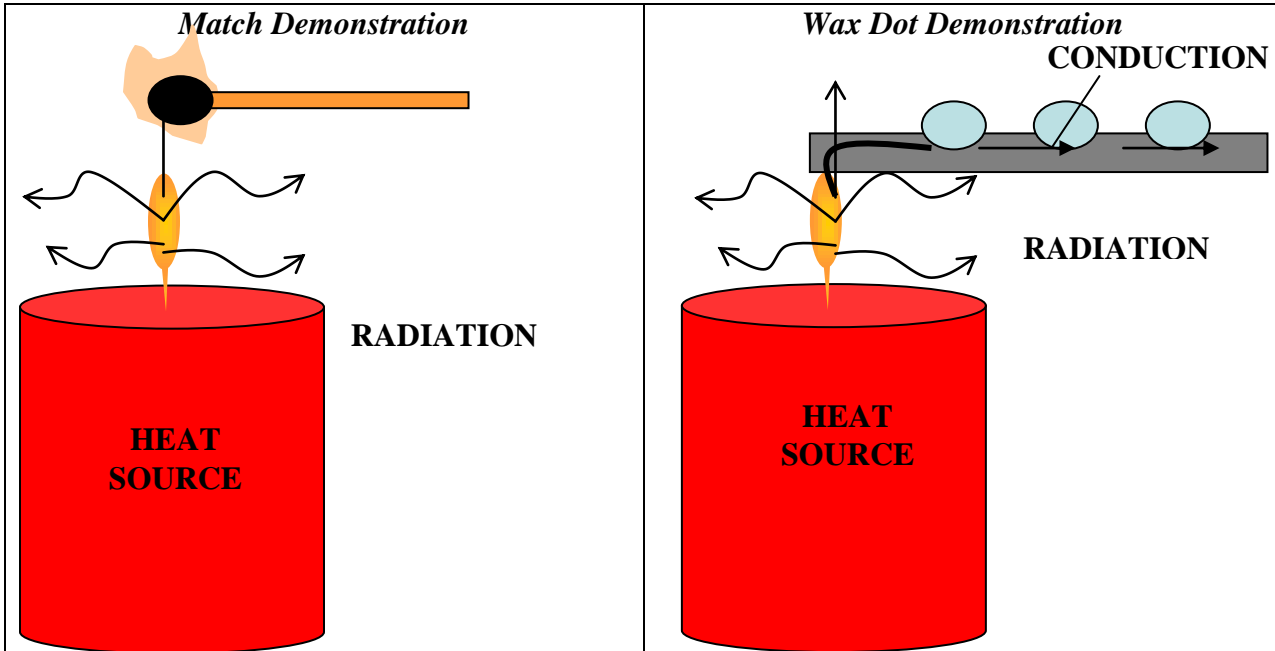
1. The transfer of heat through material by *direct* contact is _____.
2. _____ is the transfer of heat in a fluid (gas or liquid) as a result of the movement of the fluid itself.
3. What kind of heat transfer does the sun use? (hint: it transfers heat via electromagnetic waves through space). _____

Identify the method of heat transfer that takes place in each illustration. Some illustrations may show more than one form of heat transfer.



Demonstrations

In the box below, draw a picture of the demonstration. Label **the heat source**, the **direction(s) heat is moving** and **describe the type (convection, conduction or radiation)** of heat transfer that is taking place.



http://www.youtube.com/watch?v=-UcBRveX_78

Hot/Cold Lab

QUESTION

What happens when we cold half a container of water and warm the other half? How will the heat current move? What kind of heat transfer is occurring?