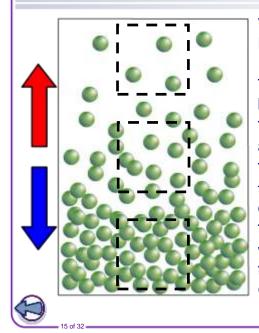


What is convection?





Warmer regions of a fluid are **less dense** than cooler regions of the same fluid.

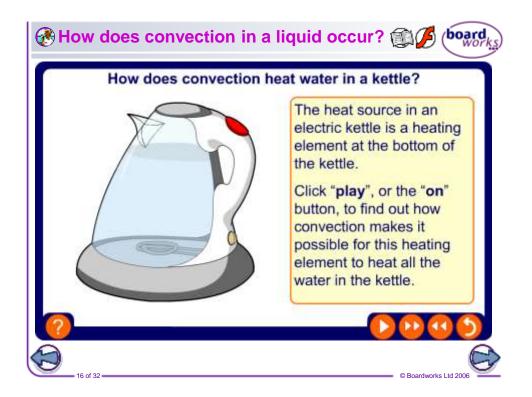
The **warmer** regions will **rise** because they are less dense.

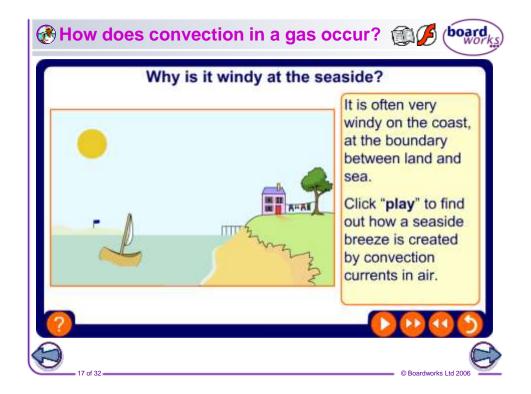
The **cooler** regions will **sink** as they are more dense.

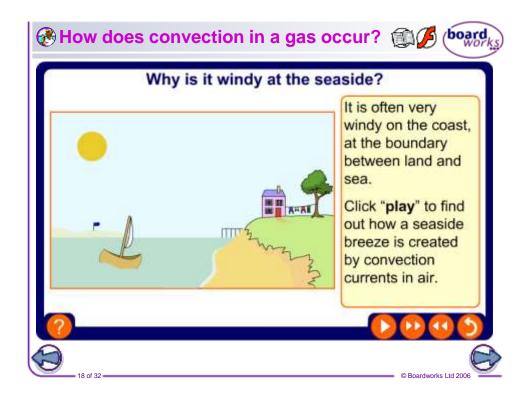
This is how heat transfer takes place in fluids and is called **convection**.

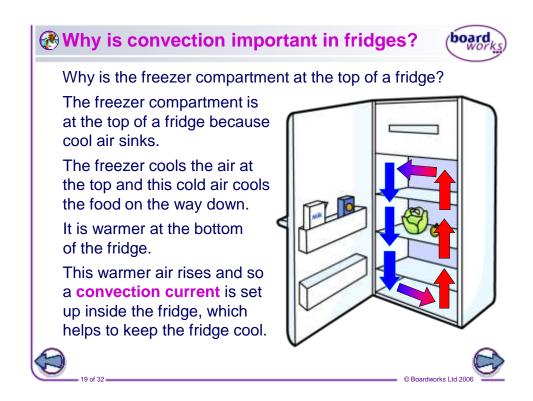
The steady flow between the warm and cool sections of a fluid, such as air or water, is called a **convection current**.

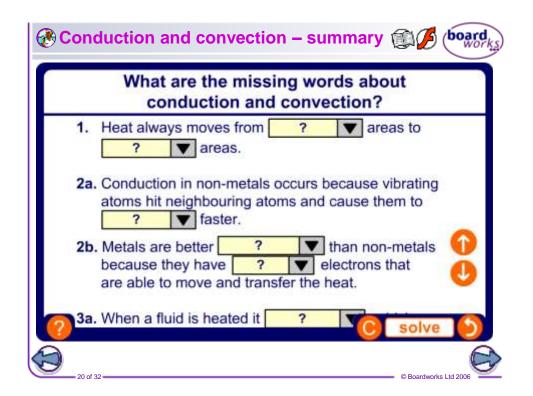
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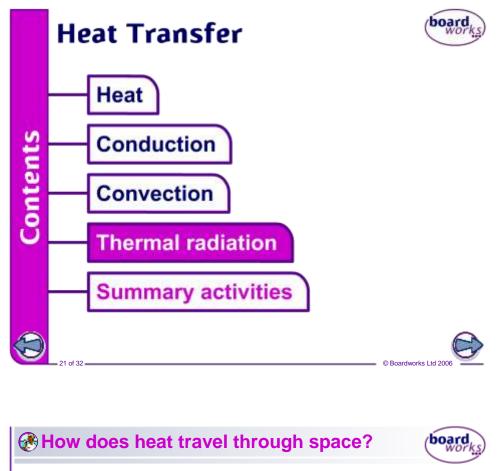




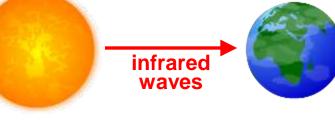








The Earth is warmed by heat energy from the Sun. How does this heat energy travel from the Sun to the Earth?



There are no particles between the Sun and the Earth, so the heat **cannot** travel by conduction or by convection.

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The heat travels to Earth by infrared waves. These are similar to light waves and are able to travel through empty space.

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