

Heat Transfer

Using words from the word boxes below, complete the paragraph about heat transfer.

faster	hot	less	solid	fluid
conduction	more	convection	energy	emit
warmer	matter	transfer	absorb	temperature
radiation	contact	cold	vibrate	waves

All _____ has heat. Heat is a form of _____ caused by particles in an object that _____. The _____ the particles of an object vibrate, the _____ the object will be. Because particles of an object are always moving, heat _____ is always happening. Heat always flows in the same direction: from _____ to _____. Heat transfer will stop once two objects reach the same _____. This is known as equilibrium.

There are three key ways that heat transfers. With _____ objects, heat transfers when the objects come into direct _____ with other things. This is known as _____. Liquids and gases are different. Because these two states of matter flow, or are _____, heat transfer happens when warmer, _____ dense particles rise and cooler, _____ dense particles sink. This ongoing process is known as a _____ current. Heat can also be transferred through space (distance) in the form of _____. This process is known as _____. All objects give off, or _____, some heat. All objects also take in, or _____, heat.

Identify the method of heat transfer that takes place in each illustration. Write the method of heat transfer underneath the picture.

