## The Movement of Heat

#	TERM	DEFINITION
1	HEAT	The kinetic energy of tiny moving particles
2	CONDUCTION	The transfer of heat energy between objects that TOUCH each other;  - Usually solid or liquid  - Moves from warmer material to the cooler material  - Ex. From warmer sand to the cooler bottoms of your feet
3	CONVECTION	The transfer of heat energy through a liquid or gas by means of CURRENTS  - MOVEMENT of matter  - Particles move around and bump into each other  - Ex. Water in a pot that is heating up to boil
4	RADIATION	The transfer of heat energy through the space; - Does not require matter - Travels as waves - Ex. Heat from the sun travels in waves through space to the Earth

Place the words/phrases in the two boxes below in the appropriate place in the Venn Diagram & Discuss.

## **Compare & Contrast** Involves Matter **Currents** Liquid Touch **Matter Moves** .onductio **Warm Material to** Solid **Cool Material** Gases **Transfer of Heat Energy Makes Particles Move Faster Movement** Waves Liquid **Waves** Touch Currents **No Matter No Matter Matter Moves Travels the Longest Distance** Space Gases Solid **Transfer of Heat Energy Makes Particles Move Faster** Movement **Involves Matter Travels the Longest Distance Warm Material to Cool Material**