

## HEAT TRANSFER BASICS

The flow of energy from one object / area to another due to a difference in temperature is known as \_\_\_\_\_.

Heat always travels from areas of \_\_\_\_\_ temperature to areas of \_\_\_\_\_ temperature. The area of higher temperature is called the heat \_\_\_\_\_ and the lower temperature area is the heat \_\_\_\_\_.

The metal spoon in the ice cream bowl will get cold. In this situation, which way is the heat traveling?



Eventually the ice cream will melt. In this situation which direction is the heat flowing?

As the ice cream and the air around it come into contact & cause heat transfer to happen, what is the heat source & what is the heat sink?

If you used a plastic spoon, it would not get nearly as cold as the metal spoon. Why?



You place a pan on the stove burner to heat water to make spaghetti. In this situation what is the heat source?

The heat sink?