



GATEWAY REGION YMCA CONDUCTION

When heat transfers through materials by a difference in temperature this is called conduction. This is why a piece of chocolate may melt simply because it's been in your hand too long. The heat from your hand transfers by conduction to the chocolate. Let's do an experiment to see how different materials are better/worse at conduction.

Supply List

- Bowl
- Metal Spoon
- Wood Spoon
- Plastic Spoon
- Hot water
- Butter

Instructions

1. Scoop a bit of butter onto the back of the plastic, wood, and metal spoon handles
2. Fill your bowl up with hot water (from the faucet is fine)
3. Place the spoons in the hot water and watch
4. Butter on the metal spoon will melt a lot faster than plastic or wood
5. This is why pots are made of metal because the material conducts heat well vs. the pot handle which is plastic or wood



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