# C:\Documents and Settings\checkout\Local Settings\Temporary Internet Files\Content.IE5\ACO4KKTU\j0441730[1].pngHeat Transfer: Hot Potato, Cold Foil Activity –

**Do You Have the Capacity? Worksheet**

**Questions**

# Surely you have you ever gotten into a car on a cool day and noticed that the metal buckle on your seatbelt feels significantly cooler than other things in your car, such as the steering wheel or the center console.

# Why do you think this is?

# How is it possible that two items made of different materials but at the same temperature can contain different amounts of energy?

# How do scientists and engineers know that the components in machines, such as an engine or a rocket, will not be overwhelmed and destroyed by the high amounts of energy to which they are regularly exposed?