

Name: _____ Date: _____ Block: _____

Teammates Consult: Thermal Energy Grapple

LT: I can explain how transformations of energy allow changes to happen.

SLT: I can distinguish between the thermal energy, temperature, and heat of an object.

SLT: I can describe the different ways thermal energy can move (conduction, convection, and radiation).



1. Look at the graphic. What is the message that the author is trying to convey?

2. Think about the parts of a car. What parts would you consider to be insulators and what parts are conductors? Choose one insulator and explain what it means to be an insulator.

3. Think about the first line of data. Outside the vehicle, the temperature is a lovely 70°. After thirty minutes, the temperature has risen to 104°. How is this possible? Use your understanding of thermal energy to explain this like a scientist. (HINT: Use your vocabulary!)

4. If a dog is sitting in a shaded part of the car, describe the chain of energy transfer from the sun to the dog.