

Name: _____ Period: _____

Mr. Peloquin's 6th & 7th Comprehensive Science
Lab – NASA Design Challenge – Thermal Protection System

Answer the reflection questions found below using full, complete, sentences.

Reflection Questions:

1. What will happen if two objects at different temperatures come into contact?
2. What property makes thermometers work?
3. What are two sources of heat that NASA engineers are protecting against?
4. Name the common, lightweight material that NASA engineers are planning to use to provide thermal protection at the base of Ares V. Describe how this material provides thermal protection
5. Name the three ways in which heat is transferred, and describe how heat is transferred in each situation.
6. Identify a material that has low thermal conductivity and a material that has high thermal conductivity
7. Describe the term "specific heat."