1. **Teachers Objectives for the class**: TSWBAT distinguish between heat and temperature and how product design is related to the three forms of heat transfer—conduction, convection and radiation.
   A. **Major Curriculum Concept**: The relationship between material and heat transfer by conduction.
   B. **Stem Application**: How product design is related to the conductivity of materials.
   C. **Common Core Reference**: 9.1 D2. Explain how energy is transferred by conduction, convection and radiation.
   D. Students will know/understand that the conductivity of a material can fool you about its temperature. They will know that different materials will have very different conductivity.

2. **Class Activity**
   **Do Now**: Touch 5 inanimate objects around you and rank them from warmest to coolest.
   - Have the students take the temperature of those objects.