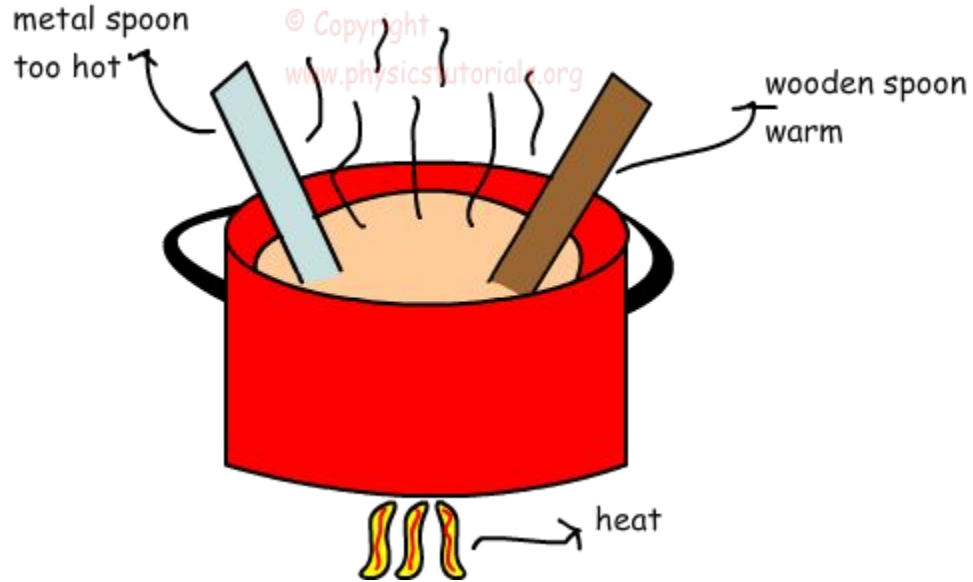


# Specific Heat Capacity

# Vocabulary

specific heat capacity



# Specific Heat Capacity of Water

- **Specific heat** is the amount of heat required to raise the temperature of one gram of a substance by one degree Celsius.
- Water has a high specific heat (4.184 J/g\* $^{\circ}$ C)
  - It takes a lot of energy to heat up water and cool it down

# Specific Heat Capacity

- As the materials on Earth's surface absorb energy radiated from the sun, they gain **thermal energy** and their **temperatures rise**.
  - The rate of temperature rise varies based on the material.
- The wide range of heat capacities is extremely important to the operation of our climate system

# NASA Data Live Access Server

<http://goo.gl/APua35>

1. Follow along with me, we will walk through this together!
2. You will answer questions about the lab and submit on GOOGLE CLASSROOM.  
(We will walk through this together as well)
  - a. Specific Heat of Land and Water
3. Answer the Essential Question in Google Classroom.

# Exit Ticket:

- Answer the following question and turn it in at the door:
  - What is specific heat capacity?
  
- Review of Lesson
- Social Contract Rating