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| **Grade:** High School | **Course:** Chemistry Honors |
| **Benchmark(s):**SC.912.P.10.4 Describe heat as the energy transferred by convection, conduction, and radiation, and explain the connection of heat to change in temperature or states of matter.  |
| **Skills – Students should be able to do** | **Concepts – Student should know** |
| **Verbs** | **Nouns** |
| Explain the relationshipCalculate specific heats | TemperatureHeatSpecific heat |
| **Critical Area of Focus based on CTS:**Heat and Temperature |
| **Learning Goal:**SWBAT:Explain the relationship between heat and change in temperature qualitatively and quantitatively.Calculate specific heats using this relationship |
| **Essential Question for the lesson:**Why does the same amount of energy only increase the temperature of some substance’s a little bit, but raises the temperature of other substances a lot?  |
| **Supporting questions for the lesson:**What factors affect the heat gained by/given off from a substance? |