Thermodynamics

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| ***Teacher:*** | Ms. Athwal  | ***Date:*** | March 24 – March 28 | ***Course:*** | Chemistry | ***Grade:*** | 11 |
| ***CA Standard(s):*** 7c *Students know* energy is released when a material condenses or freezes and is absorbed when a material evaporates or melts.7d *Students know* how to solve problems involving heat flow and temperature changes, using known values of specific heat and latent heat of phase change. |
| ***Learning Objective (s):*** 7.3 – I can draw a phase diagram to describe how pressure and temperature are related and discuss what a triple point is.7.4 – I can analyze and draw a heating curve to describe how energy is lost or gained while a substance changes phases. I can identify on the graph the ΔHfusion and the ΔHvaporization.7.5 – I can describe a reaction using the ideas of enthalpy and entropy. I can articulate how enthalpy and phase diagrams are related. |
| * ***Essential Question(s):*** Why are flamin’ hot Cheetos so bad for me? ; How much energy is required to turn my Flamin’ Hot Cheetos into a liquid?
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| **Assessment**: * Literacy reading annotation
* Exit ticket (3 questions on phase diagrams)
* Quarter 3 Benchmarsk
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| ***Do Now***:1. Define endothermic. Give an example.
2. Define exothermic. Give an example
3. I cool a glass of water, is this an endothermic process or an exothermic process?
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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Specific heat diagrams
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| **SMALL GROUP STATION** |  | **COLLABORATIVE STATION** |  | **COMPUTER ASSISTED STATION** |
| Notes on **enthalpy** and **entropy**, and heating curves  |  | Heating curve collaborative poster: With your table, complete the heating curve challenge problems.* **Explain your reasoning next to each of your answers**

 Reading high fructose corn syrup and food addiction articles  |  | Benchmark 3 Reflection Blogging Learning taret 7.1 and 7.2  |