Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Science Learning Targets – Q2**

**NC Science Essential Standard(s)**

6.P.2 (Matter: Properties and Change) Understand the structure, classifications and physical properties of matter.

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| **Clarifying Objectives** | |
| **Number** | **Standard** |
| 6.P.2.1 | Recognize that all matter is made up of atoms and atoms of the same element are all  alike, but are different from the atoms of other elements. |
| 6.P.2.2 | Explain the effects of heat on the motion of atoms through a description of what  happens to particles during a change of phase. |
| 6.P.2.3 | Compare the physical properties of pure substances that are independent of the  amount of matter present including density, boiling point, melting point and solubility to properties that are dependent on the amount of matter present to include volume, mass and weight. |

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| Key Vocabulary | |
| 6.P.2.1 | Elements Atom Particle Matter Mass Molecule |
| 6.P.2.2 | Substance  Solid Liquid Gas Plasma  Phase Change  Heat Molecule Thermal Energy Volume  Density  Temperature |

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| 6.P.2.3 | Pure Substance Boiling Point Melting Point Physical Change Mass  Weight Density Volume |

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| **Learning Targets – I will be able to …** |
| • Describe why matter is made up of atoms and atoms of the same element are alike  • I will explore how temperature affect movement of particles within a solid, liquid and gas  • Discover how different substances have a different solubility rate  • Investigate the physical properties of pure substances in terms of temperature at which each substance undergoes state change |