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| Monday | January 14th, 2019 | | |
| **MS-PS3.-3B**: Conservation of Energy and Energy Transfer Energy is spontaneously transferred out of hotter regions or objects and into colder ones. | | | |
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| **Content**  **Objective** | Students will explore thermal energy transfer by observing an ice cube melting in their hands by recording at least 2 details of their observations in the Type 2 format. | | |
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| **Language**  **Objective** | Students will write to describe their exploration of thermal energy transfer by observing an ice cube melting in their hands and recording at least 2 details of their observations in the Type 2 format. | | |
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| **Phenomena** | | **Connecting Vocabulary** | **Connecting Vocabulary** |
| What type of cup would keep my coffee the hottest? | | Increase  Decrease  Warmer  Cooler | Thermal Energy  Heat Transfer  Particles  Kinetic Energy  Temperature |

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| Tuesday | January 15th, 2019 | | |
| **MS-PS3.-3B**: Conservation of Energy and Energy Transfer Energy is spontaneously transferred out of hotter regions or objects and into colder ones. | | | |
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| **Content**  **Objective** | Students will conduct an investigation to determine the effect of different types of matter on thermal energy transfer by tracking energy flow in a designed system by accurately identifying which material allowed for the greatest and least change in temperature on a lab sheet.  (Explore 2) | | |
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| **Language**  **Objective** | Students will write to describe an investigation to determine the effect of different types of matter on thermal energy transfer by tracking energy flow in a designed system by accurately identifying which material allowed for the greatest and least change in temperature on a lab sheet using a sentence stem. | | |
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| **Phenomena** | | **Connecting Vocabulary** | **Connecting Vocabulary** |
| What type of cup would keep my coffee the hottest? | | Increase  Decrease  Warmer  Cooler | Thermal Energy  Heat Transfer  Particles  Kinetic Energy  Temperature |

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| Wednesday | January 16th, 2019 | | |
| **MS-PS3.-3B**: Conservation of Energy and Energy Transfer Energy is spontaneously transferred out of hotter regions or objects and into colder ones. | | | |
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| **Content**  **Objective** | Students will examine the nature and movement of thermal energy by conduction, convection, and radiation by conducting 3 experiments and as a result construct a definition of all 3 from their observations.  (Explore 1) | | |
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| **Language**  **Objective** | Students will write to define the nature and movement of thermal energy by conduction, convection, and radiation after conducting 3 experiments. | | |
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| **Phenomena** | | **Connecting Vocabulary** | **Connecting Vocabulary** |
| What type of cup would keep my coffee the hottest? | | Increase  Decrease  Warmer  Cooler | Thermal Energy  Heat Transfer  Particles  Kinetic Energy  Temperature |

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| Thursday | January 17th, 2019 | | |
| **MS-PS3.-3B**: Conservation of Energy and Energy Transfer Energy is spontaneously transferred out of hotter regions or objects and into colder ones. | | | |
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| **Content**  **Objective** | Students will examine the nature and movement of thermal energy by conduction, convection, and radiation by conducting 3 experiments and as a result construct a definition of all 3 from their observations.  (Explore 1) Day 2 | | |
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| **Language**  **Objective** | Students will write to define the nature and movement of thermal energy by conduction, convection, and radiation after conducting 3 experiments. | | |
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| **Phenomena** | | **Connecting Vocabulary** | **Connecting Vocabulary** |
| What type of cup would keep my coffee the hottest? | | Increase  Decrease  Warmer  Cooler | Thermal Energy  Heat Transfer  Particles  Kinetic Energy  Temperature |

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| Friday | January 18th, 2019 | | |
| **MS-PS3.-3B**: Conservation of Energy and Energy Transfer Energy is spontaneously transferred out of hotter regions or objects and into colder ones. | | | |
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| **Content**  **Objective** | Students will be able to make a claim based on evidence in the wax chip investigation about how energy is transferred by conduction using accurate observations and at least 1 reason. CER Type 3 | | |
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| **Language**  **Objective** | Students will write a claim based on evidence in the wax chip investigation about how energy is transferred by conduction using accurate observations and at least 1 reason and FCA: Claim, FCA Evidence/Reason, FCA: Complete Sentences. (CER Type 3) | | |
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| **Phenomena** | | **Connecting Vocabulary** | **Connecting Vocabulary** |
| What type of cup would keep my coffee the hottest? | | Increase  Decrease  Warmer  Cooler | Thermal Energy  Heat Transfer  Particles  Kinetic Energy  Temperature |