STEM NOTEBOOK

*Chemical Interactions*



Investigation 5/7: Energy Transfer and Phase Change

BIG QUESTION: How does energy transfer and particle kinetic energy induce substances to change from one phase to another?



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| FOCUS QUESTION: How does energy transfer when water is mixed? |
| PLAN | DATA |
| EXPLANATION |
| EXTENSION |

**FACT SWAP**

*Read: Energy on the Move (pg 32)*

My Facts

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Facts from my Classmates

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| FOCUS QUESTION: What is the difference between dissolving and melting? |
| PLAN |
| OBSERVATIONS |
| EXPLANATION |

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| FOCUS QUESTION: How does energy transfer cause a material to melt? |
| PLAN | DATA |
| EXPLANATION |
| EXTENSION |

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| FOCUS QUESTION: How does energy transfer impact freezing? |
| PLAN  |
| OBSERVATIONS |
| EXPLANATION |



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| WHAT DO YOU SEE? |
| WHAT DO YOU THINK? |
| WHAT DO YOU THINK NOW? |

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| FOCUS QUESTION: How can energy transfer be used to explain condensation and evaporation? |
| PLAN |
| OBSERVATIONS |
| EXPLANATION |
| EXTENSION |

**FACT SWAP**

*Read: Rock Solid (pg 42)*

My Facts

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Facts from my Classmates

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Describe what is happening at a particle level as you move from solid to liquid, and then liquid to gas.

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| BIG QUESTION: |
| CLAIM:I claimI claimI claim | EVIDENCE:I know this becauseI know this becauseI know this because |