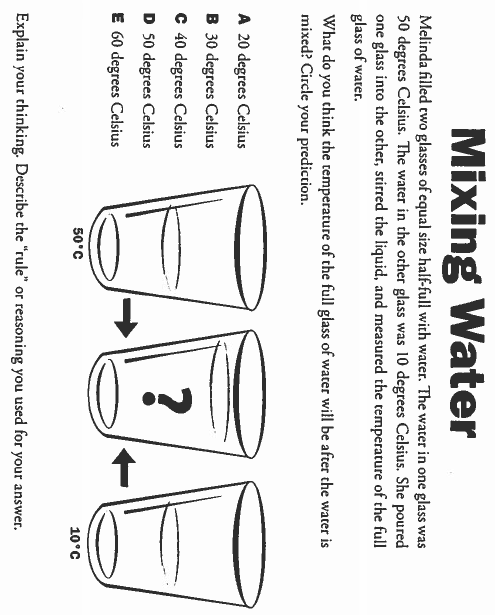
STEM NOTEBOOK

*Chemical Interactions*

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&docid=0p8e79l0lsSCwM&tbnid=qssqvClBQu_q2M:&ved=0CAUQjRw&url=https://sites.google.com/site/tourobcourchesne/edse-606/matter-phases-density&ei=E4ldU9D5Cei_8QH7yoGoDA&bvm=bv.65397613,d.b2U&psig=AFQjCNEX1kS0R6rettSrvNbFVF0oysUoBQ&ust=1398725247517071)

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

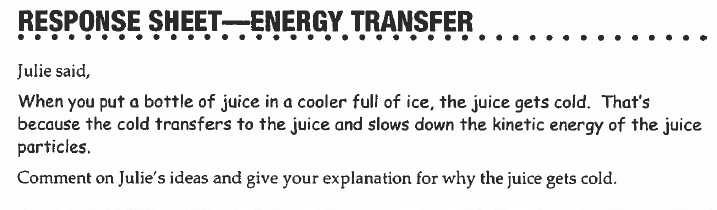
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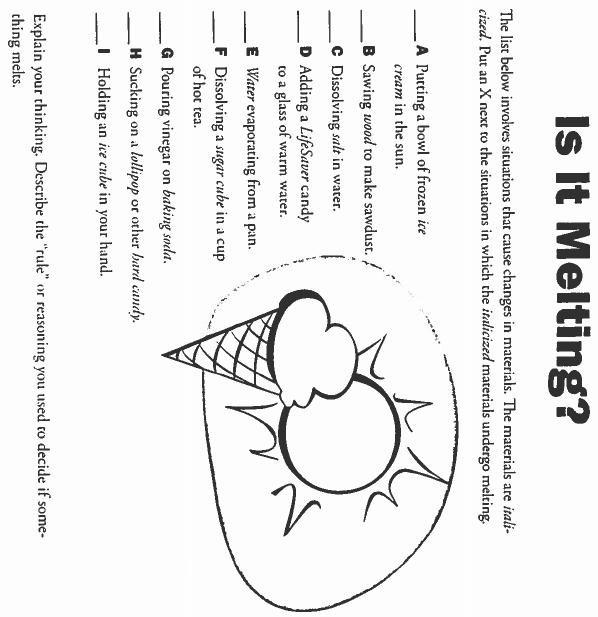
Facts from my Classmates

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

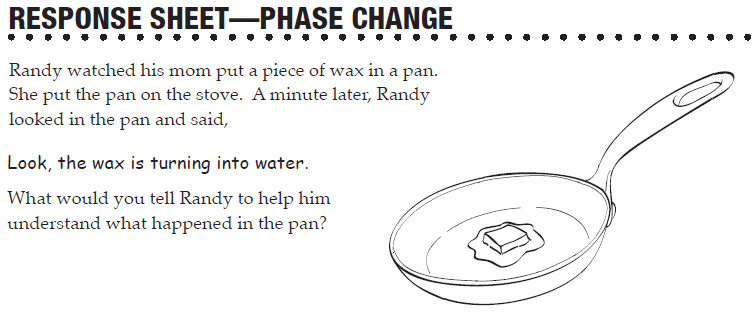
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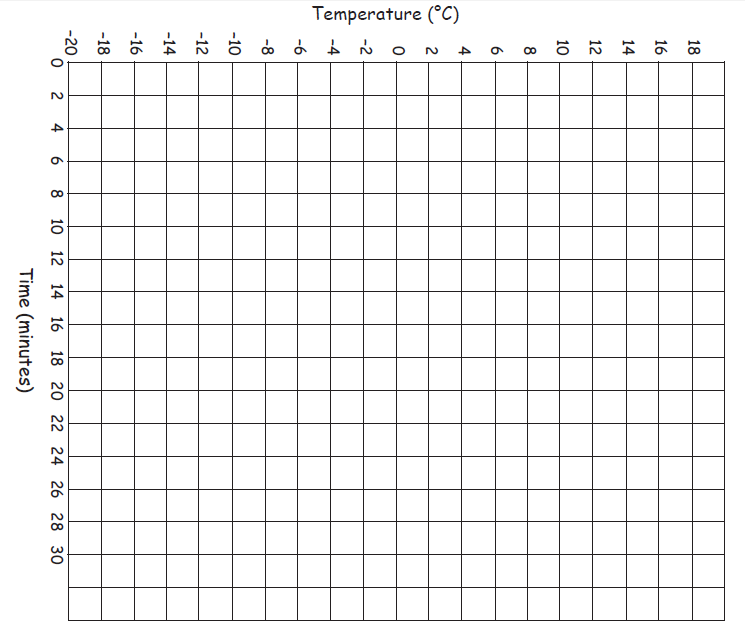
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| FOCUS QUESTION: How does energy transfer cause a material to melt? | |
| PLAN | DATA |
| EXPLANATION | |
| EXTENSION | |

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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

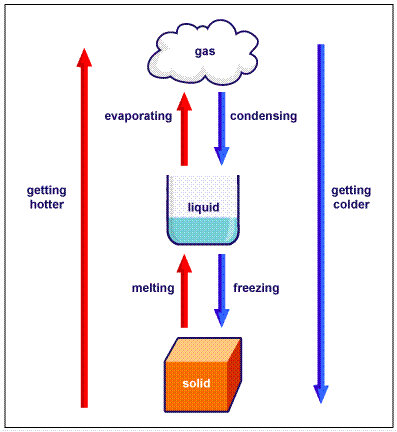
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Describe what is happening at a particle level as you move from solid to liquid, and then liquid to gas.

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