Phase Change Models

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You are going to create models for these 3 situations: 1. Energy transferred into a popsicle but does not melt. 2 Energy transferred out of your pool and it freezes.

3. Energy transferred into a popsicle and it melts.

*Reminder: solid arrow is energy transferred in or out and dashed arrow is energy needed for a phase change to take place.*

Step 1-Using the three situations, determine how many solid, liquid and gas cards you will need. Record in the space below and circle the word on the card. Then circle the words on the cards. If you need 4 gas card, 4 cards should have the word gas circled

\_\_\_\_\_ solid \_\_\_\_\_ liquid \_\_\_\_ gas

Step 2-With your colored pencils, if the card is a gas shade it green, liquid shade it blue, and solid shade it red.

Step 3-Fill in the movement and appearance lines then cut out the cards.

Step 4-Using the arrows given to you, determine which of the 3 situations they represent and glue the appropriate square (where it says glue here).

Step5- Explain the model in the space provided.

Based on the arrows, what situation is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glue Here

Glue Here

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Based on the arrows, what situation is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glue Here

Glue Here

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Based on the arrows, what situation is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glue Here

Glue Here

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Solid Liquid Gas

Movement

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Appearance

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Solid Liquid Gas

Movement

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Appearance

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Solid Liquid Gas

Movement

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Appearance

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Solid Liquid Gas

Movement

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Appearance

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Solid Liquid Gas

Movement

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Appearance

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Solid Liquid Gas

Movement

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Appearance

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