### Monday, October 15, 2018

#### Your Learning Goal:

After observing the two beakers, students will describe the phenomena using prior knowledge, and predict what is happening at a molecular level.

<u>Table of Contents</u>: Changing Phases – 12L <u>Catalyst (12L)</u>:

In what ways might you be able to change the order of atoms/molecules in a substance?



#### **Homework:**

Watch Big Bang Video Cornell Notes 10L+R



#### Agenda:

- 1. Catalyst
- 2. Experiments!
- 3. Reflection

### Table of Contents

|   | Date     | Assignment                        | Pg#      |
|---|----------|-----------------------------------|----------|
|   | 10/8/18  | Our Expanding Universe            | 9 L+ R   |
|   |          | The Universe: Beyond the Big Bang | 10 L + R |
|   | 10/11/18 | Going Subatomic                   | 11L + R  |
|   | 10/15/18 | Changing Phases                   | 12 L + R |
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In what ways might you be able to change the order of atoms/molecules in a substance?



Reflection

10/15/18

#### Changing Phases

1 Hot Water Cold Water

Minutes Temperature

2

Sketch of Experimental Set Up

**12R** 

**12L** 

## Experimental Set Up # 1



In what ways might you be able to change the order of atoms/molecules in a substance?



Reflection

10/15/18

#### Changing Phases

1 Hot Water Cold Water

Minutes Temperature

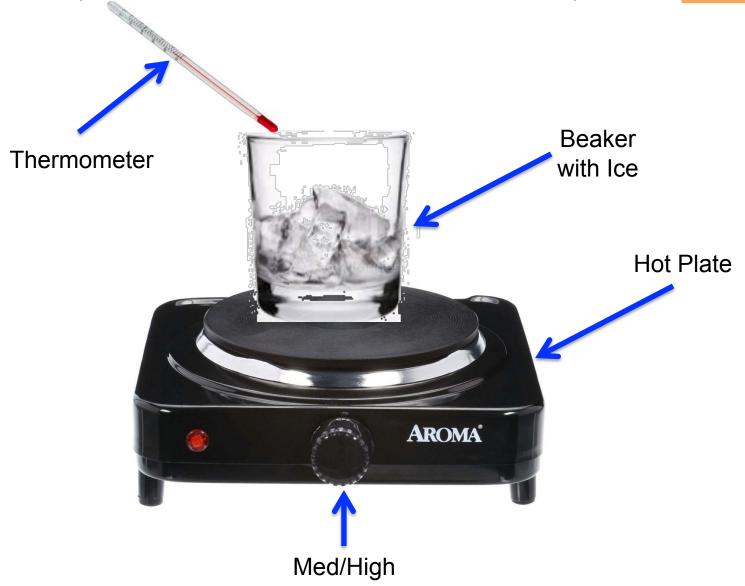
2

Sketch of Experimental Set Up

**12R** 

**12L** 

## Experimental Set Up # 2



In what ways might you be able to change the order of atoms/molecules in a substance?



10/15/18

### Changing Phases

1 Hot Water Cold Water

Minutes Temperature

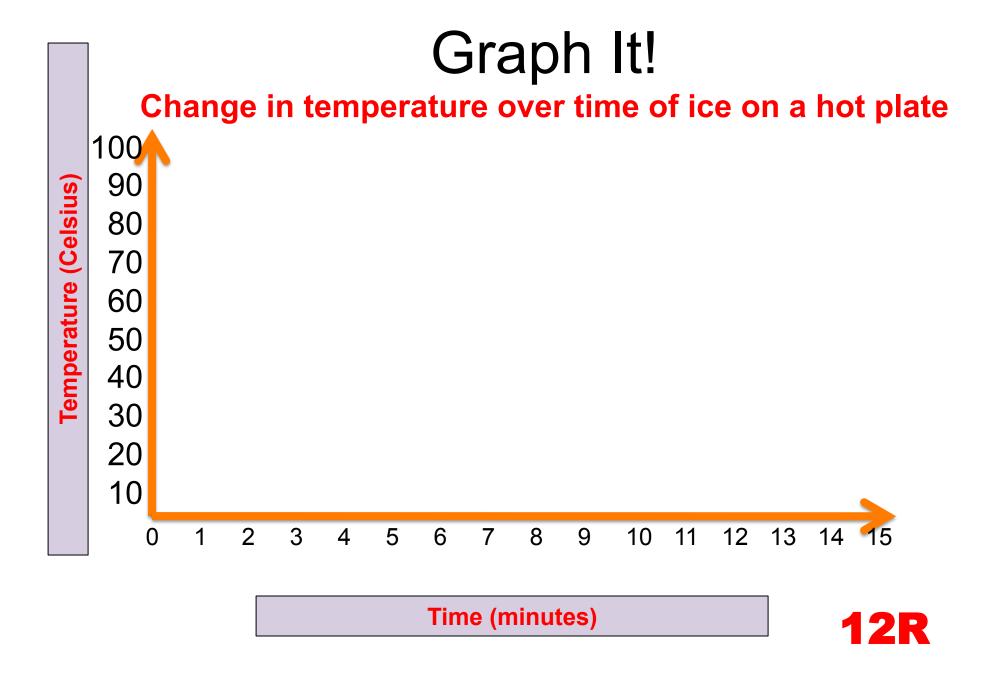
Sketch of

Experimental Set Up

2

**12L** 

**12R** 



# Experimental Set Up # 3



In what ways might you be able to change the order of atoms/molecules in a substance?

#### Reflection

Create a story describing the changes a water molecule went through from ice, to water to steam and back to water.

**12L** 

### Changing Phases

**12R**