**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#\_\_\_\_\_**

**Engage** – Teacher Demonstrations

Demonstration 1

1. What type of change took place? **Physical or Chemical**
2. What evidence do you have to support your answer?

Demonstration 2

1. What type of change took place? **Physical or Chemical**
2. What evidence do you have to support your answer?

Demonstration 3

1. What type of change took place? **Physical or Chemical**
2. What evidence do you have to support your answer?

**Explore** – Lab Stations

Complete the following data table as you explore the items at each station. The Technical Manager will record your group’s thoughts on the iPad using the digital whiteboard scanned by the QR Code. Each station has a different QR Code.

|  |  |  |
| --- | --- | --- |
| **Station #** | **Observations** | **Physical or Chemical? Your Explanation** |
| **1**  **Melting Ice** | Describe the ice.  Is the ice changing? How?  What is the ice changing into? |  |
| **2**  **Balloons** | Was blowing up the balloon physical or chemical?  Is the balloon the same substance as it was before, or has it become something else?  Grab the balloon with your hand and squeeze it into a new shape (without popping it). Is this a physical or chemical change? |  |
| **3**  **Sugar** | Was this station demonstrating a physical or chemical change? Write your observations and the type of change it is. |  |
| **4**  **Sugar & Salt** | Was this mixing a physical or chemical change? Write your observations and predictions as to what kind of change it is.  Write out a method you could use to test to see if this was a chemical or physical change.  Use the magnifying glass and examine some of your mixture. Compare the crystals you see with some from the original stock of salt and sugar. Write your observations and what kind of change you think this is. |  |
| **5**  **Magnetism** | What happens when you move the filings around?  What happens when you hold the magnet 2 inches above the bag?  Is this a physical or chemical change? |  |
| **6**  **Pennies** | What happened after you performed the activity?  Is it a physical or chemical change?  Can you reverse the process? Why or why not? |  |
| **7**  **Tablets** | Write down your observations after dropping the tablet in the water.  (See next page for other question for Station 7)  Could you reverse this process? Even if you did so, could you remake the tablet? If a reaction is not reversible, it is probably a chemical change. Is this a physical or chemical change? Explain your reasoning. |  |
| **8**  **Bread vs. Concrete** | After looking at the bread and thinking about its ingredients:  Can you see the eggs in the bread?  Is the bread a mixture of its ingredients that you could separate out so that you still had eggs, flour, and the other ingredients?  Is making bread a physical or chemical change?  After looking at the concrete and thinking about its ingredients:  Can you see the ingredients mixed in the parts of the concrete, as in a physical change, or has a new substance resulted, indicating a chemical change? |  |

------------------------------------------------------------------------------------------------------------------------------------Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Exit Ticket Out: Day 1 Reflection**

Based on your observations so far, what is the difference between a physical and chemical change? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reflect on your Lab Role today. Give yourself a rating on your how you managed your role.

1 2 3 4 5

I struggled with my role. I rocked my role!