

Name _____ Date _____ Block _____

Lab #1

Using the phenolphthalein solution, write a message on the white paper at the lab station (make sure it is G rated)! Allow it to dry. Gently spray your message with the dilute base solution. DO NOT GET THE PAPER TOO WET!!!

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Lab #2

Get your hands dirty. Put your hands in the goo. Move it around.

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Lab #3

Express yourself. Use the universal paper the teacher gave you, and write a message on the paper using the materials provided at the station.

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Lab #4

Sharpen your pencil here!

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Lab #5

1. Would adding ice to boiling water be a physical or a chemical change?
2. How do you know this?

Lab #6

Express yourself. Use the universal paper the teacher gave you, and write a message on the paper using the materials provided at the station.

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Lab #7

Using the graduated cylinder, measure 10mL of H_2O_2

Pour the H_2O_2 into the clean test tube

Put 3 pinches of yeast into the test tube

Shake the test tube to mix the solution

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean up the lab station by: disposing of solution in the sink, and rinse out the test tube and graduated cylinder

Lab #8

Measure 10 mL of $\text{C}_2\text{H}_4\text{O}_2$ into a clean test tube.

Measure 1 g of NaHCO_3 using the weighing tray and the centigram balance

Place the 1 g of NaHCO_3 into the graduated cylinder

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean up the lab station by: disposing of solution the sink and rinse out the graduated cylinder. Return the weights to zero on the balance. Wash hands very well.

Lab #9

Measure 5 mL of $C_6H_8O_7$ into the graduated cylinder

Place the $C_6H_8O_7$ into a clean test tube

Place the thermometer into the test tube and take a temperature reading

Measure 1 g of $NaHCO_3$ using the weighing tray and the centigram balance

Place the $NaHCO_3$ into the test tube

Take temperature readings every 30 seconds for 2 minutes

Time (min)	Temp ($^{\circ}C$)
0.0	
0.5	
1.0	
1.5	
2.0	

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean-up the lab station by: disposing of solution in sink at station, rinse out the graduated cylinder and test tube, and clean up any mess that might have been made on the counter. Return the weights to zero on the balance.

Lab #10

Fill a clean test tube $\frac{1}{2}$ full of warm water

Place 3 pinches of $MgSO_4$ into the test tube

Swirl to mix the solution

Put 5 drops of $NaOH$ into the test tube

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean up the lab station by: disposing of solution in sink at station, and rinse out the test tube

Lab #11

Fill the clean test tube $\frac{1}{2}$ full with water
Place a pea size amount of ice tea into the test tube
Swirl to mix

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean up the lab station by: disposing of solution in sink at station, and rinse out the test tube

Lab #12

Fill a clean test tube $\frac{1}{2}$ full of COLD water.
Place a thermometer in and take a temperature reading.
Place a 5 balls of CaCl_2 in the test with the water.
Gently, gently, gently, stir with the thermometer, taking temperature readings every 15 seconds for 2 minutes.

Time (min)	Temp ($^{\circ}\text{C}$)
0:00	
0:15	
0:30	
0:45	
1:0	
1:15	
1:30	
1:45	
2:0	

Questions:

1. Is this a chemical or physical change?
2. How do you know this?

Clean up the lab station by: disposing of solution in sink and rinse out the test tube