Name: _____Date: _____ Class: _____

Sample Lab Procedures Handout

Sample # _____

<u>SAMPLE NAME</u>: Sample #_____ with _____ Group _____

Before you conduct your procedures, as a group you will need to decide:
- How much of your assigned ingredient you will add to your sample (document in the reaction scheme),
- Where in the procedures you will add your ingredient and/or how you will add your ingredient to sample (document this in the procedures below)

Reaction Scheme

Corn Starch	10 g
Water	60 ml
Vinegar	5 ml
Glycerin	5 ml
Phosphorescence Solid	0.6 g

Make sure you document your quantitative and qualitative observations as you move through each procedure step.

Procedures	Observations
1. Pre-heat hot plate to 400°C	
2. Label the top and bottom of a clean petri dish with the sample name and group number	
3. In a 1000 ml beaker add 10 g of cornstarch (using weigh paper and a balance)	
4. Add 5 ml of vinegar (using a 10 ml graduated cylinder) to the same beaker	
5. Add 5 ml of glycerin (using a 10 ml graduated cylinder) to the same beaker	
6. Add 60 ml of water (using a 100 ml graduated cylinder) to the same beaker.	
7. Stir the mixture using a silicon spatula until the corn starch is dissolved and mixture is thoroughly combined	
8. Measure out 60 ml of the mixture (using a 100 ml graduated cylinder) and dispense into to a clean 250 ml beaker	
9. Add 0.6 grams of the phosphorescence solid to the 60 ml mixture in the 250 ml beaker (from step 8 using weigh paper and a balance)	
10. Stir the mixture using a clean silicon spatula until the phosphorescence solid is completely dissolved throughout.	
11. Heat the mixture in the 250 ml beaker using a hot plate preheated to 400°C	
12. Continuously stir the mixture with the silicone spatula while it is heating.	

13. Continue to heat and stir the mixture for 6 minutes and 30 seconds.	
14. Transfer the heated mixture into the labeled petri dish using the silicon spatula and heat glove.	
15. Allow the sample to dry and harden overnight. Do not cover!	