**Year 6 Change Detectives Task Sheet**

**Student Name:\_\_\_\_\_\_\_\_\_\_\_\_Class:\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **![C:\Users\Toni\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\8HI9K2YX\MC900290698[1].wmf]()**Throughout the term you will be exploring the elements of structure, crystallizing, evaporation, filtering, condensing, dissolving and patterns. You will participate in hands-on activities and experiments that will investigate these elements.

You are a detective who has to identify and explain a physical or chemical change using everyday materials.

**YOUR TASK**

Your assignment this term is to research and design an experiment, with teacher support, that shows how the properties of materials can be affected before and after a physical or chemical change. You will demonstrate your experiment as an oral presentation to the class and write up your findings in a scientific report.

**Checklist – Have you done the following?**

* Find suitable experiment
* Fill out planning sheet for experiment
* Submit to teacher for approval
* Gather resources
* Practice experiment at home and/or at school
* Complete scientific report draft
* Submit draft to teacher for feedback
* Demonstrate experiment to class
* Submit final write up

**Tips for success:**

* Choose a topic that you are interested in or already know a lot about
* Understand the science behind why you achieved the result you did. Research it or talk to your teacher
* Make sure you have are fully prepared for your demonstration
* Practice, practice, practice
* Your scientific report has to contain the following: aim, hypothesis, materials/equipment, method/procedure, results, labelled diagram

**Follow these steps:**

**Step 1:** Research the experiment using books from the library and/or the internet.

**Step 2:** Write out a plan of the experiment using the experiment planning sheet. Submit this to your teacher for approval.

 **Due date-**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Step 3:** Collect ALL resources you will need to conduct the experiment. (See your teacher if you need help collecting the materials or equipment).

**Step 4:** Complete your experiment at least once at home prior to your demonstration so you know the expected result and understand the science behind your findings. (See your teacher if you are unable to do this at home).

**Step 5:** Write up your **DRAFT** scientific report explaining your findings of your experiment. Submit this to your teacher for feedback.

 **Due date -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Step 6:** Present your experiment to the class. Submit the final copy of your scientific report to the teacher for marking. Remember to use the correct scientific language to explain your experiment.

 **Due date -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_