

## **2009 NCW Demonstrators Guide to Take Home Materials and Clean Up Procedures**

### **STUDENTS ARE TO TAKE HOME ONLY THESE ITEMS:**

|   |                                |
|---|--------------------------------|
| Golf pencil   | Carbon paper piece             |
| Detective Badge   | Magnet square                  |
| Copper square   | Zirconium square               |
| Bright penny  | Completed Periodic Table       |
| Mystery Message Puzzle/Book list  | Celebrating Chemistry Magazine |
| 50ml self-standing vial (containing the 9 pennies, vinegar, salt and paper clip.) |                                |

### **GENERAL CLEAN UP PROCEDURES FOR EXPERIMENTS**

Pour any excess alginate solution into the wet newspaper.

All wet newspaper, paper plates, food items, towels, used teaspoons, used beral pipets, used cups, the chalk, Tums, egg shells and limestone may be tossed into a trash bag and disposed of with the normal garbage.

Please wrap the torn pop cans in a piece of newspaper before throwing in with the trash to prevent accidental cuts.

Check with the librarian if they are willing to take the trash; otherwise, please dispose of it with your own trash.

### **CLEAN UP FOR LIQUIDS:**

Pour the following into your bucket. Then pour into the toilet and flush.

|                                |                             |
|--------------------------------|-----------------------------|
| All vinegar solutions          | The Peroxide/yeast solution |
| Excess Copper sulfate solution |                             |

Note: the alginate solution will react with the copper ions and form the gelatinous goo and should therefore be disposed of in the trash **not down the sink/toilet**.

### **RETURN THE GOGGLES TO THE LIBRARIAN IN THE NUMBERED STORAGE BOX PROVIDED**

### **RETURN TO THE LIBRARIAN IN THE ENVELOPE THE FOLLOWING:**

|                         |                         |             |                    |         |
|-------------------------|-------------------------|-------------|--------------------|---------|
| Photo permission forms  | Feedback form completed |             |                    |         |
| <u>Unused</u> teaspoons | metals                  | paper clips | salt               | Pencils |
| Wipe ups                | pennies                 | pipets      | Magnifying glasses |         |
| gloves                  | handouts                | magazines   | vials/lids         |         |

(Be sure your librarian gets one copy of the handouts and magazines please.)

USED Vials (rinsed and placed in one of the experiment bags)

2 Labeled "A" for alginate

2 50ml Iodine vials

Place the 7 10ml vials (tighten carefully) into one of the bags provided in the experiment and then place that bag into another one. Remove air in both to reduce volume.

PLEASE TAKE HOME the extra napkins and cups, any extra vinegar, extra peroxide AND the 7 vials of the silver solution with the copper strip. This needs to completely react so that all silver is plated out in about a day. CAREFULLY remove the copper strip with the silver and set on newspaper to dry. At this point it is okay to pour the remaining solution down the sink. Let the silver dry out and dispose of the copper strip/silver in the trash or collect and try to sell the pure silver.