Chemistry Bag of Change

Materials:
Chemical A
Chemical B
Chemical C
Ziploc Baggie
10 ml Graduated cylinder

Procedure

Step 1
Put on Personal Protective Equipment (**PPE**) = Gloves, Goggles and Lab Coats

Step 2
Grab 1 Ziploc and weigh it, don't forget to zero (tare) the scale.
Ziploc Weight: _____grams

Step 3
Place a scoop of Chem A in one corner of the baggie. Note here what it looks like, please describe color and texture (lumpy, smooth, fine, powder etc.)

_____

Step 4
Place a scoop of Chem B in the opposite corner of the baggie. Again note the color and texture:

_____

Step 5
Weigh the two chemicals, trying to keep them separate. Again don't forget to zero (tare) the scale. Weight
_____grams

Step 6
Seal bag and mix two chemicals together. Is there a reaction, circle: YES   NO
If yes, describe-be detailed:

Step 7
Weigh your empty graduated cylinder- again, don't forget to zero (tare) the scale: _____grams

Step 8
Measure 10 ml of Chemical C using a graduated cylinder and weigh it- again don't forget to zero (tare) the scale:
_____grams

Step 9
Pour it into your baggie and mix with the Chem A & B already in your baggie.
Is there a reaction? YES   NO
If yes, describe-be detailed (use your senses of touch, sight and sound):

Step 10
Continue to mix with hands if any lumps in bag still.
After 2 minutes, note any changes:

After 3 minutes, note any changes:

If reaction has stopped move to next step otherwise, continue to note changes and hand mix baggie.

Step 11:
Weigh your baggie.

Step 12:
Clean up your equipment **RINSE** well your baggie all chemicals can go down drain. Make sure it is well rinsed and toss baggie in the trash. *Make sure not to leave a mess in the sink.* **Do not remove PPE**, until *everyone* is done the lab.

Step 13- Caclulations:
Take your grams in step 5 and subtract the weight of the baggie

1. Step 5_____grams - Step 1_____grams = _____grams of Chemicals A & B

Take your grams in step 8 and subtract the weight of the graduated cylinder

2. Step 8_____grams - Step 7_____grams=_____grams of Chemical C

Take your grams of Chemicals A&B (**from #1 above**) and grams of Chemical C (**#2 above**) and add them together to get your reactant weight prior to combining chemicals.

3. Chemical A&B _____grams + Chemical C _____grams = _____grams of reactants A, B & C

Take your grams of A, B & C after the reaction is finished and subtract the weight of the baggie.

4. Step 11_____grams – Step 1_____grams=_____grams of Chemicals after reaction A, B & C

Take the weight you recorded in **calculation #4 above** and subtract it from what you answered in **calculation #3 above**.

5. Grams of reactants A, B & C _____grams – Grams after reaction _____grams = _____grams

Questions:

1. Was there a difference in the weight of the reactants at the beginning of the lab versus the end of the lab? Why\What do you think this happened?