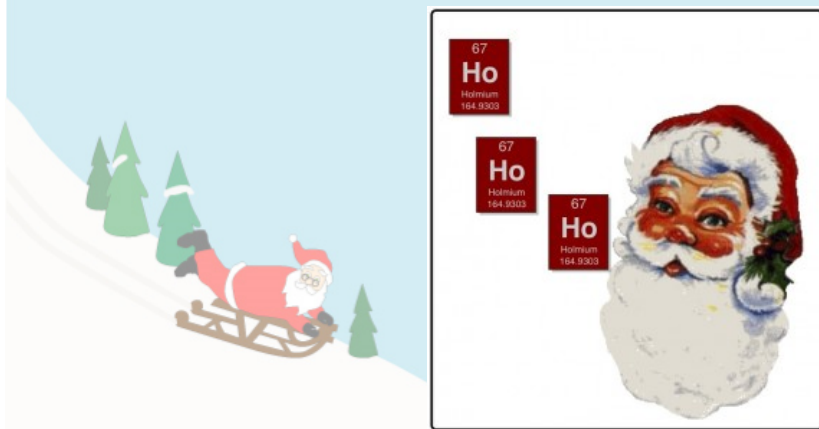


Welcome! Please grab your ISN  
and have a seat!  
Play the game to classify types  
of reactions in your google  
classroom!!



Dec 5-7:41 AM

You will create a timeline of important events in chemistry. Listed below are 7 events that must be on your timeline. You will research and come up with 8 additional events for your timeline. In addition you must find one short video or animation relating to one of the items on your timeline. On the due date, students will present their timelines, describe the impact of one of the discoveries from your timeline and present your video. This project will count as a 100 point test grade and a 200 point project grade. All work except presentations will be done out of class. Due at beginning of class on Thurs, Dec 15

| Required events               |
|-------------------------------|
| Discovery of proton           |
| Discovery of neutron          |
| Discovery of electron         |
| Oil Drop Experiment           |
| Discovery of radioactivity    |
| Gold foil experiment          |
| Development of Periodic Table |

Dec 5-10:55 AM

|   | Requirements   | %  | Your checklist | Teacher's Checklist | Teacher's Comments |
|---|--|----|----------------|---------------------|--------------------|
| 1 | Size: Maximum of 110 cm x 28 cm  | 5  |                |                     |                    |
| 2 | Title  | 5  |                |                     |                    |
| 3 | 15 dates each with a short description that includes either an important discovery, development or invention along with the <b>name of the associated scientist</b>  | 15 |                |                     |                    |
| 4 | Minimum of one picture for each event. Can be printed or hand drawn.   | 15 |                |                     |                    |
| 5 | Presentation: Present timeline, select one event and describe the event and its impact.  | 15 |                |                     |                    |
| 6 | One short animation about one of discoveries in your timeline or a short video about one of the scientists in your timeline. You will present this at the same time as the presentation of your timeline.  | 10 |                |                     |                    |
| 7 | Neatness, grammar, readability   | 15 |                |                     |                    |
| 8 | Cite your sources according to the MLA Style. This will be turned in on a separate sheet of paper. Do not use Wikipedia as a source. The following website gives great examples of what the works cited page should look like: <a href="http://writing.umn.edu/sws/assets/pdf/quicktips/mla_workscited.pdf">http://writing.umn.edu/sws/assets/pdf/quicktips/mla_workscited.pdf</a> | 10 |                |                     |                    |
| 9 | Your behavior as an audience member during presentations.  | 10 |                |                     |                    |

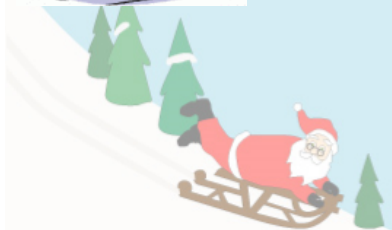
Dec 5-10:52 AM

## TOC 61 and 62 Reactions Part 2



Is it a CHEMICAL REACTION???

1. release heat/light
2. sounds POPS/fizz
3.  $\Delta$  in temp
4. new gas/precipitate
5.  $\Delta$  in electric current
6.  $\Delta$  in color/odor



Dec 5-10:57 AM

# TOC 61 and 62 Reactions Part 2

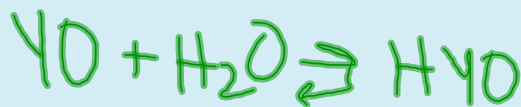
## Predicting Products

### Synthesis and Decomposition

\* metal oxide +  $H_2O \rightarrow$  metal hydroxide  
*X = metal*



\* nonmetal oxide +  $H_2O \rightarrow$  acid  
*Y = nonmetal*



\* Decomposition is the reverse of synthesis.

Dec 5-10:59 AM

# TOC 61 and 62 Reactions Part 2

## Predicting Products Single Replacement

| Activity Series Chart |        |            |        |
|-----------------------|--------|------------|--------|
| Metals                |        | Non-Metals |        |
| Name                  | Symbol | Name       | Symbol |
| Lithium               | Li     | Fluorine   | F      |
| Potassium             | K      | Chlorine   | Cl     |
| Barium                | Ba     | Bromine    | Br     |
| Strontium             | Sr     | Iodine     | I      |
| Calcium               | Ca     |            |        |
| Sodium                | Na     |            |        |
| Magnesium             | Mg     |            |        |
| Aluminum              | Al     |            |        |
| Manganese             | Mn     |            |        |
| Zinc                  | Zn     |            |        |
| Iron                  | Fe     |            |        |
| Cadmium               | Cd     |            |        |
| Cobalt                | Co     |            |        |
| Nickel                | Ni     |            |        |
| Tin                   | Sn     |            |        |
| Lead                  | Pb     |            |        |
| Hydrogen              | H      |            |        |
| Copper                | Cu     |            |        |
| Silver                | Ag     |            |        |
| Mercury               | Hg     |            |        |
| Gold                  | Au     |            |        |

Most Active ↑

↓ Least Active

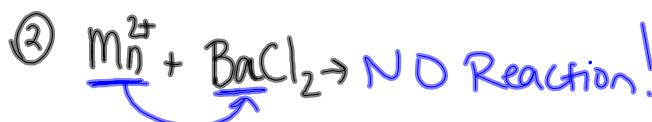
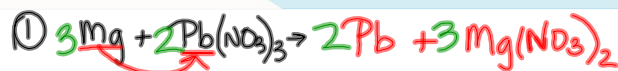
Elements CANNOT replace anything ABOVE them. The reaction DOES NOT OCCUR in this situation.

\* an element can replace anything below it in the activity series, but it cannot replace anything above it.

\* metals can only replace metals  
 \* nonmetals can only replace nonmetals



Example 5



Dec 5-10:59 AM