Science Lesson Plan

Day: Monday Date: 27/8/2012 Time: Period 5 Class: Yr 8.05

Subject: Chemistry Topic: Particle theory/States of Matter

Students' Prior Knowledge and Experience:

- Elements
- Chemical equations
- Reactants and products

Aus Curriculum: Chemical change involves substances reacting to form new substances

Learning Purposes:

- To balance chemical equations

Student Evaluation:

- Worksheet filled out

Materials

Laptops

Website: http://funbasedlearning.com/chemistry/chemBalancer/default.htm

Worksheets

Timing:	Learning Experiences:
10 mins	Introduction • Solutes –A substance dissolved into another • Soluble – Can be dissolved • Insoluble – Cannot be dissolved • Solvents – A substance (usually liquid) that dissolves a solute • Balancing equations – $2H_2O_2 \rightarrow 2H_2O + O_2$ H=~~2~~ 4 H=~~2~~4 O=~~2~~ 4 O=~~3~~4 • $2Na + O_2 \rightarrow Na_2O_2$ • $C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$ C=3 C=~~1~~,3 H=8 H=~~2~~,8 O=~~2~~, 10 O=~~3~~, ~~7~~, 10
40 mins	Main **Directions:** 1. Go to http://funbasedlearning.com/chemistry/default.htm. Click on the Classic Chembalancer worksheet link, print it out, and photocopy as needed for your class. 2. Go down to the computer lab (if you have internet access* for all those machines), hand out the worksheet, and have the students play the Classic Chembalancer game at http://funbasedlearning.com/chemistry/default.htm. 3. If you want, you can get the students to show you final page when they finish (instead of you having to mark #1-#11 on the worksheet), then initial their worksheet to say they completed the game. 4. Get the students to do #12 and #13 on the back of the worksheet. Here is the answer key for the problems on the worksheet. 1) 1, 1, 1 2) 1, 1, 2 3) 2, 1, 2 4) 1, 2, 2 5) 2, 2, 1 6) 1, 2, 1, 1 7) 1, 2, 1, 2 8) 1, 1, 1, 1 9) 1, 3, 2 10) 4, 3, 2 11) 4, 2, 4, 5 12) 2, 2, 2, 1 13) 1, 2, 1, 2
10 mins	Pack up computers