Online Balancing Equations Simulation

Directions:

2. Click 'Directions'. Read and understand the directions.
3. Click 'OK'.
4. Click on 'Start Game'
6. If you forget the directions, click on the 'How to Play the Game' link. Click 'OK' when you finish reading them to return to the game.
7. When you think you have typed the right numbers in all the boxes, click the 'Balanced' button.
8. If you didn't get it right, try again.
9. If you did get it right, then fill in the correct answers on this worksheet.

Questions

Fill in the blanks below as you go though the game. This is so I have a record that you did your assignment.

1. _____ Fe + _____ S --> _____ FeS

2. _____ H_2 + _____ Cl_2 --> _____ HCl

3. _____ Mg + _____ O_2 --> _____ MgO

4. _____ O_2 + _____ H_2 --> _____ H_2O

5. _____ HgO --> _____ Hg + _____ O_2

6. _____ Ca + _____ H_2O --> _____ $Ca(OH)_2$ + _____ H_2

7. _____ CH_4 + _____ O_2 --> _____ CO_2 + _____ H_2O

8. _____ Na_2O_2 + _____ $H_2(SO_4)$ --> _____ $Na_2(SO_4)$ + _____ H_2O_2

9. _____ N_2 + _____ H_2 --> _____ NH_3

10. _____ Al + _____ O_2 --> _____ Al_2O_3

11. _____ $KMnO_4$ --> _____ K_2O + _____ MnO + _____ O_2

Count the atoms on both sides of the arrow and adjust the coefficients to balance.

12. _____ Na + _____ H_2O --> _____ Na(OH) + _____ H_2

Na

H

O

13. _____ $H_2(SO_4)$ + _____ Na(OH) --> _____ $Na_2(SO_4)$ + _____ H_2O

H

(SO_4)

Na

O