

Worksheet to teach balancing equations

Name _____

Directions:

1. Start Internet Explorer or Netscape and go to <http://pw1.netcom.com/~kellerq/chemball/default.htm>
2. Click 'Directions'. Read and understand the directions.
3. Click 'OK'.
4. Click on 'Start Game'
5. Try entering some numbers in the text boxes in front of each molecule. What happens?
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 for #1.
10. Repeat steps 7-9 for the other 10 questions.
11. Now do the two problems on the back of this worksheet. You can draw the molecules just like the program did to figure out the answer.

Questions

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

1. ___ Fe + ___ S → ___ FeS
2. ___ H₂ + ___ Cl₂ → ___ HCl
3. ___ Mg + ___ O₂ → ___ MgO
4. ___ O₂ + ___ H₂ → ___ H₂O
5. ___ HgO → ___ Hg + ___ O₂
6. ___ Ca + ___ H₂O → ___ Ca(OH)₂ + ___ H₂
7. ___ CH₄ + ___ O₂ → ___ CO₂ + H₂O
8. ___ Na₂O₂ + ___ H₂SO₄ → ___ Na₂SO₄ + ___ H₂O₂
9. ___ N₂ + ___ H₂ → ___ NH₃
10. ___ Al + ___ O₂ → ___ Al₂O₃
11. ___ KMnO₄ → ___ K₂O + ___ MnO + ___ O₂