

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 through the game. This is so I have a record that you did your assignment.

1. ____ Fe + ____ S $\rightarrow$ ____ FeS
2. ____ H₂ + ____ Cl₂ $\rightarrow$ ____ HCl
3. ____ Mg + ____ O₂ $\rightarrow$ ____ MgO
4. ____ O₂ + ____ H₂ $\rightarrow$ ____ H₂O
5. ____ HgO $\rightarrow$ ____ Hg + ____ O₂
6. ____ Ca + ____ H₂O $\rightarrow$ ____ Ca(OH)₂ + ____ H₂
7. ____ CH₄ + ____ O₂ $\rightarrow$ ____ CO₂ + ____ H₂O
8. ____ Na₂O₂ + ____ H₂(SO₄) $\rightarrow$ ____ Na₂(SO₄) + ____ H₂O
9. ____ N₂ + ____ H₂ $\rightarrow$ ____ NH₃
10. ____ Al + ____ O₂ $\rightarrow$ ____ Al₂O₃
11. ____ KMnO₄ $\rightarrow$ ____ K₂O + ____ MnO + ____ O₂

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

12. ____ Na + ____ H₂O $\rightarrow$ ____ Na(OH) + ____ H₂

Na
H
O

13. ____ H₂(SO₄) + ____ Na(OH) $\rightarrow$ ____ Na₂(SO₄) + ____ H₂O

H
(SO₄)
Na
O