NAMES: **HONORS CHEMISTRY**

SECTION: Pairs/Check: Balancing Equations

Directions:

1. Put both names on the paper.
2. The older partner does the even problems. The younger partner does the odd problems. Take turns balancing the equations. As you work, explain how you are doing the problem while your partner listens.
3. After each problem, discuss the answer with your partner. If both partners agree on the answer, highlight the balanced equation. (Use a different color for each problem). If an agreement can’t be reached, both partners need to leave the breakout room and consult with the instructor.
4. Both students should record the answers to all the questions.
5. Answer the self-assessment questions at the end.
6. Submit your completed assignment in Google Classroom when you have finished.
7. \_\_\_\_PbO2 → \_\_\_\_ PbO + \_\_\_\_ O2
8. \_\_\_\_ Al + \_\_\_\_ N2 → \_\_\_\_AlN
9. \_\_\_\_ Fe(OH)3 → \_\_\_\_ Fe2O3 + \_\_\_\_ H2O
10. \_\_\_\_ (NH4)2CO3 → \_\_\_\_ NH3 + \_\_\_\_ H2O + \_\_\_\_ CO2
11. \_\_\_\_ H2 + \_\_\_\_ Fe3O4  → \_\_\_\_ Fe + \_\_\_\_ H2O
12. \_\_\_\_ Al + \_\_\_\_ CuSO4  → \_\_\_\_ Al2(SO4)3 + \_\_\_\_Cu
13. \_\_\_\_ C4H10 + \_\_\_\_ O2 → \_\_\_\_ CO2 + \_\_\_\_ H2O
14. \_\_\_\_ Xe + \_\_\_\_ F2 → \_\_\_\_ XeF6
15. \_\_\_\_ Si + \_\_\_\_ S8 → \_\_\_\_ Si2S4
16. \_\_\_\_ BaCl2 + \_\_\_\_ Al2(SO4)3 → \_\_\_\_ BaSO4 + \_\_\_\_ AlCl3
17. \_\_\_\_ Fe(OH)3 → \_\_\_\_ Fe2O3 + \_\_\_\_ H2O
18. \_\_\_\_ S8 + O2 → \_\_\_\_ SO3

**Self-assessment questions**

The purpose of this assignment was to:

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| --- | --- |
| Did I: | Circle the appropriate response: |
| Explain how I did the problems? | Always Sometimes Rarely |
| Listen while my partner explained? | Always Sometimes Rarely |
| Give my partner positive support? | Always Sometimes Rarely |
| Stay on task during the assignment? | Always Sometimes Rarely |
| Use encouraging and polite words? | Always Sometimes Rarely |
| Record my work on the paper? | Always Sometimes Rarely |
| Demonstrate an understanding of the material? | Yes No |

Comments: