

NAMES:

HONORS CHEMISTRY

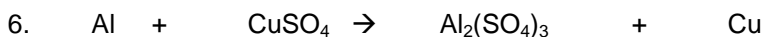
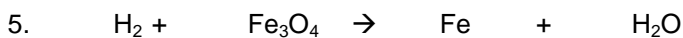
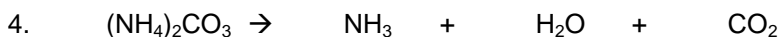
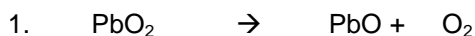
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SECTION:

Pairs/Check/Share: 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, the solver initials the equation. If an agreement can't be reached, both partners raise their hands to get the teacher's attention.
  4. When all the equations have been balanced, compare your answers with those of another group. If both pairs agree on the answers, rewrite the equation with the correct coefficients and circle the equation.
  5. Turn in the sheet when you have finished.
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For the following problems, be sure to write your formulas correctly before balancing. Include states of matter

7. Water vapor and nitrogen dioxide gas are combined to manufacture ammonia (formally known as nitrogen trihydride...not that anyone ever calls it by that name). A byproduct of this reaction is oxygen gas.

8. Iron ore can be obtained by reacting the naturally occurring ore hematite,  $\text{Fe}_2\text{O}_3$ , with carbon. The carbon is converted to carbon dioxide.
  
9. Ethane reacts with molecular oxygen to produce carbon dioxide and water vapor.
  
10. When aqueous solutions of iron(III) chloride and sodium hydroxide are mixed, the products are solid iron(III) hydroxide and aqueous sodium chloride.
  
11. Silver metal and copper(II) nitrate are produced when a strip of copper metal is placed in a solution of silver nitrate.
  
12. When propane burns in oxygen, the products are carbon dioxide and water vapor.

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: