

Chemistry 20 - Science 10 Review - Formation, Decomposition, and Complete Combustion

Name: _____

KEY

Ensure that your chemical equations are balanced. Ensure that your symbolic equations are properly *balanced* using coefficients.

1. Complete each of the following word equations. You may need to look up some chemical formulas using your textbook.

- sodium plus fluorine gas produces
- barium plus selenium produces
- calcium plus iodine produces
- strontium plus nitrogen produces
- hydrogen fluoride decomposes to
- magnesium phosphate decomposes to
- iron (III) hydroxide decomposes to
- vanadium (V) sulfide decomposes to
- methane burned in oxygen produces
- glucose burned in oxygen produces
- propane burned in oxygen produces
- nitrogen monoxide burned in oxygen produces

sodium flouride

barium selenide

calcium iodide

strontium nitride

hydrogen and fluorine

magnesium, phosphorus, oxygen

iron hydrogen and oxygen

vanadium and sulfur

carbon dioxide + water vapor

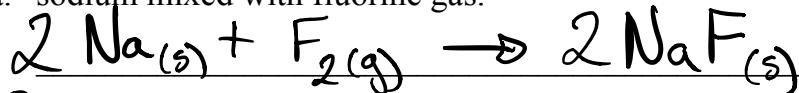
carbon dioxide + water vapor

carbon dioxide + water vapor

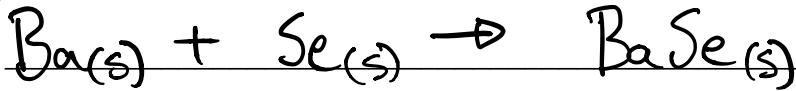
nitrogen dioxide

2. Write balanced symbolic chemical equations for each of the following reactions. Use the most common charge for ambiguous multivalent ions.

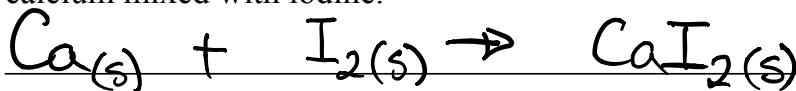
- sodium mixed with fluorine gas.



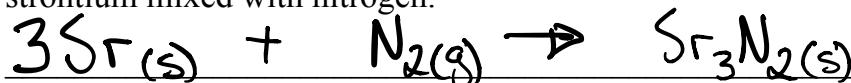
- Barium mixed with selenium.



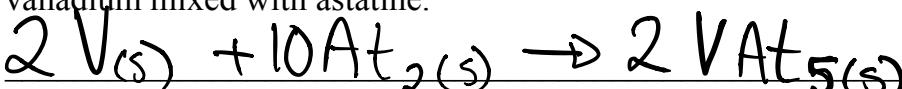
- calcium mixed with iodine.



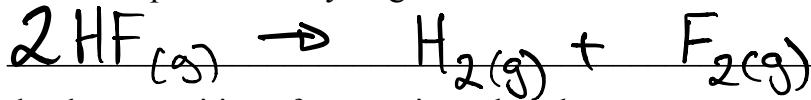
- strontium mixed with nitrogen.



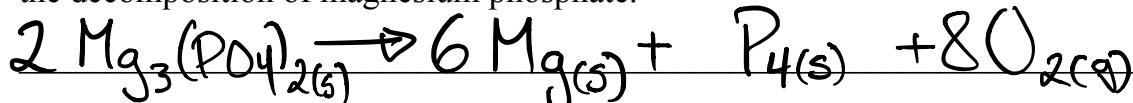
- vanadium mixed with astatine.



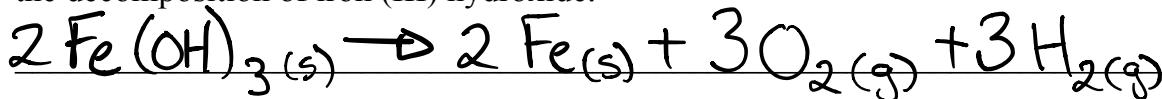
f. the decomposition of hydrogen fluoride.



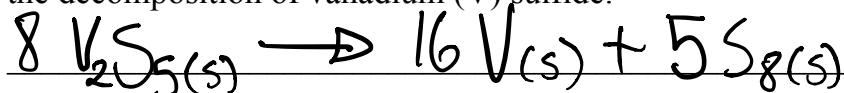
g. the decomposition of magnesium phosphate.



h. the decomposition of iron (III) hydroxide.



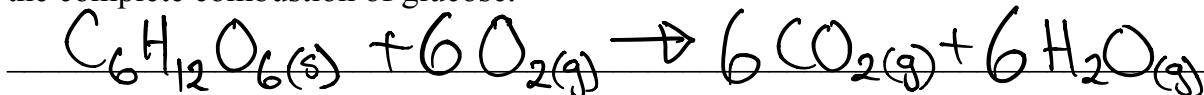
i. the decomposition of vanadium (V) sulfide.



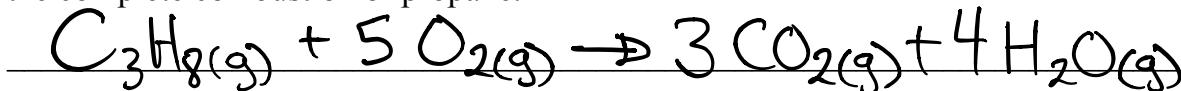
j. the complete combustion of methane.



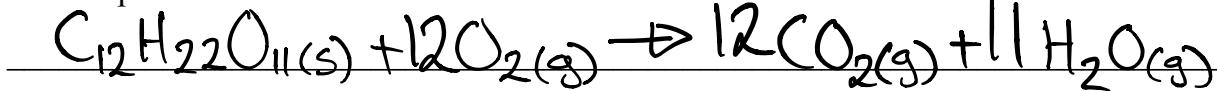
k. the complete combustion of glucose.



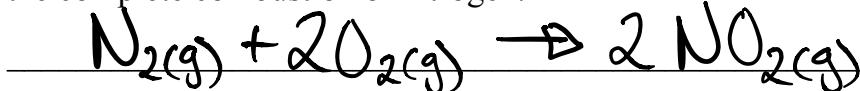
l. the complete combustion of propane.



m. the complete combustion of sucrose.



n. the complete combustion of nitrogen.



o. the complete combustion of carbon disulfide.

