Year 10 Science: Combination reactions and combustion

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Write a balanced equation for calcium combining with oxygen, and say whether the product is ionic or covalent.

2. Balance the complete combustion of ethane: $C_2H_6 + O_2 \rightarrow CO_2 + H_2O$

3. A camping stove has a yellow, sooty flame. Name two products besides water and explain the cause.

4. Gas from a burning candle is bubbled through limewater, which turns milky. What does this show?

5. Why is burning magnesium classed as both combustion and combination?

Fix the mistake

6. Correct this statement: "Methane burns to make carbon dioxide and hydrogen."

7. Correct this statement: "Incomplete combustion makes carbon monoxide instead of water."

8. Correct this statement: "Burning magnesium gives off carbon dioxide and water like any fuel."

9. Correct this statement: "Balancing propane, I wrote $C_3H_8 + 5O \rightarrow 3CO_2 + 4H_2O$."