Year 10 Science: Naming compounds and balancing chemical equations

Name: _____ Date: _____

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

Practice

1. Name K_2O, $CaSO_4$ and N_2O_4.

2. Write the formula for sulfur trioxide and for calcium chloride.

3. Balance: $Mg + HCl \rightarrow MgCl_2 + H_2$

4. Balance: $Na + Cl_2 \rightarrow NaCl$

5. A student heats magnesium ribbon in an open crucible and finds the mass increases. Does this disprove conservation of mass? Explain.

Fix the mistake

6. Correct this statement: "To balance $H_2 + O_2 \rightarrow H_2O$, I can change the water to H_2O_2."

7. Correct this statement: "$MgCl_2$ is magnesium dichloride."

8. Correct this statement: "CO_2 is monocarbon dioxide."

9. Correct this statement: "The open beaker got lighter, so some mass was destroyed in the reaction."