Year 9 Science: Tests for hydrogen, oxygen, carbon dioxide and water

Name: _____ Date: _____

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

Practice

1. A gas relights a glowing splint. What is it?

2. Marble chips are added to hydrochloric acid. Which test would you use on the gas, and what result do you expect?

3. A clear liquid turns blue cobalt chloride paper pink. Does this prove the liquid is pure water? Explain.

4. Red cabbage indicator turns blue-green in a cleaning spray. Is the spray acidic, neutral or alkaline?

5. A student spills dilute sodium hydroxide on their hand. What should they do first?

Fix the mistake

6. Correct this statement: "A lit splint went out in the gas, so it must be carbon dioxide."

7. Correct this statement: "Hydrogen relights a glowing splint, and oxygen pops with a lit one."

8. Correct this statement: "The liquid turned cobalt chloride paper pink, so it is pure water."

9. Correct this statement: "To dilute an acid, pour the water into the acid."