

## "I Can" Statements

1. Use the process of electrolysis to decompose water molecules
2. Use a burning/glowing splint to identify hydrogen gas and oxygen gas
3. Explain what volume ratio of oxygen gas and hydrogen gas is expected when water is electrolyzed.
4. Predict the volume(s) of un-reacted gas when various ratios of hydrogen and oxygen gas are ignited in a sealed container.
5. React Zn metal with hydrochloric acid; separate the unreacted metal; evaporate the water and recover the product.
6. Use mass measurements of reacted Zn metal and zinc chloride produced to calculate the ratio of Zn to zinc chloride.
7. Use the ratio of Zinc to zinc chloride to predict the mass of product when various masses of Zn are reacted.
8. Distinguish between complete and incomplete reactions.
9. Distinguish between excess and limiting reactants in a chemical reaction.
10. Define the terms "element" and "compound".
11. Identify the highest percentage elements found near the surface of the earth.
12. Relate the general location of the highest percentage elements found near the surface of the earth.