

Observations:

Get your sample and describe it here before starting today's lab:

Observations:

Description during and after today's conversion:

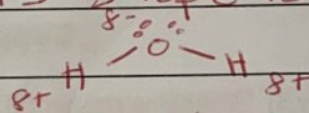
Conversion IV Questions

1. Explain your reasoning: (synthesis, decomp., single displacement, double displacement, more than one?)

double displacement

2. What were we trying to wash away from the black copper (II) oxide in step 7? excess NaOH

3. Is water polar or nonpolar? polar How do you know? its shape is bent



4. How could you tell that Conversion IV is underway & then completed? The reaction started to bubble & then the liquid was green.

5. Is HCl acidic or basic? acidic How do you know? starts with H

6. Determine the number of moles of HCl in 20 mL of 6M HCl. (Hint: convert mL to L then use Molarity=number of moles/L)

$$6M = \frac{x \text{ moles}}{0.02L} \quad 0.12 = \text{moles}$$

7. Look at the following formulas: Which are acids, bases and neither? Name each acid or base.

Compound	Acid or Base	Name the acid or base
Ca(OH) ₂	base	Calcium hydroxide
H ₃ PO ₄	acid	phosphoric acid
HCl	acid	hydrochloric acid
HC ₂ H ₃ O ₂	acid	acetic acid
NaOH	base	sodium hydroxide
NH ₄ OH	base	ammonium hydroxide
HF	acid	hydrofluoric acid
LiOH	base	lithium hydroxide