

## Gas Volume Stoichiometry

(1) **Purpose:**

- 1 To test gas volume stoichiometry by trapping/measuring gas in a cylinder.

(2) **Experimental Design:**

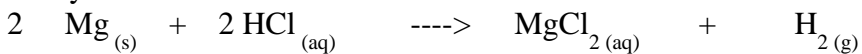
- 1 *manipulated variable* - amount of magnesium ribbon
- 1 *responding variable* - amount of hydrogen gas collected

(4) **Observations:**

- 1 Length of magnesium ribbon
- 2 Mass of magnesium ribbon calculation
- 1 Volume of gas collected.

### Conclusion

(5) Analysis



- 3 calculation of theoretical volume

0.060 g magnesium ----> 61 mL of hydrogen gas

(2) Evaluation

- 2 Percent error calculation

(4) **Questions**

1. Assumed SATP conditions. (1)
2. 61 mL = 0.0050 g (2)
3. Pop indicates the presence of hydrogen gas. (1)

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