

### THEORY

The theory of the present experiment is based on the fact that the rate of reaction between a metal and an acid is directly proportional to the surface area of the metal. In other words, the rate of reaction is directly proportional to the length of the metal strip used. This is because a longer strip provides a larger surface area for the acid to react with.

### APPARATUS

- 1. Dilute hydrochloric acid
- 2. Metal strip
- 3. Conical flask
- 4. Delivery tube
- 5. Gas jar
- 6. Stopwatch
- 7. Measuring cylinder
- 8. Beaker
- 9. Glass plate
- 10. Stand and clamp

### PROCEDURE

1. Prepare a dilute solution of hydrochloric acid.

### EXPERIMENT

