

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 diameter of the metal strip. This is because the larger the surface area, the more molecules of the metal are exposed to the acid, and hence the faster the reaction will proceed.

Sl. No.	Time taken for reaction to complete (s)	Diameter of metal strip (cm)
1	120	0.5
2	60	1.0
3	30	1.5
4	20	2.0
5	15	2.5

Graph of Time taken for reaction to complete (s) vs. Diameter of metal strip (cm) is shown below.

EXPERIMENT

