**Year 10 Chemistry - semester 2**

**Activity 5 - Teacher Demo Measuring Rates**

**Materials**

Marble chips (CaCO3 ), 4M HCl, electronic balance

1. Place 50g of marble chips into a 250 ml beaker on the balance.
2. Place about 200 ml of 4M HCl in a second beaker on the balance.
3. Record the initial mass.
4. Pour the acid onto the marble chips and replace the beaker onto the balance
5. Record the mass every 30s.
6. Students graph the mass vs time.

Challenge them to come up with a hypothesis to explain the shape of their graph.