# CONCEPT MAP

FORM 4

## RATE OF REACTION

- How fast the quantity of a reactant is used up or a product is formed per unit time during a chemical reaction
  - Types of measurement
    - Average rate of reaction
    - Instantaneous rate
- Factors that affect the rate of reaction
  - Size of reactants
  - Concentration
  - Temperature
  - Presence of catalyst
  - Pressure
  - Experiments to investigate the factors that affect the rate of reaction
- Application of rate of reaction in daily life
  - Burning of coal
  - Storage of foods in refrigerators
  - Pressure cookers
  - Industrial processes
- The collision theory
  - Collisions and effective collisions
  - Activation energy
  - Energy profile diagrams
  - Explanation of the factors that affect the rate of reaction based on the collision theory