- For a reaction to occur the reactants must collide with sufficient energy to alter the arrangement of atoms in the molecule
 - ➢ i.e. an initial boost of energy is needed
 - \succ activation energy
 - > must be overcome
 - before a reaction can proceed.
- In chemical reactions this may be carried out by heating ٠

- Interventers the active site of an enzyme
 The shape of the molecule is altered slightly
 This enables metabolic processes to take place at temperature over that chemical reactions not catalysed by enzymes.

Enzymes:

- By lowering the activation energy enzymes decrease the input of energy required to • allow reactions to take place at the lower temperatures found in cells.