Energy

Role of energy

- light energy for photosynthesis
- ATP used for conversion of GP to TP
- ATP used to regenerate RuBP
- Energy needed for anabolic reactions: protein synthesis
- Activation energy to activate glucose in glycolysis
- Active transport: sodium potassium pump
- Movement: muscle contraction
- Endocytosis / exocytosis / pinocytosis / bulk transport
- Temperature regulation

ATP structure

- -Nucleotide

- ATP as universal energy curtered Small Mare soluble so can move an universal Intermediate between co When how
 - When hydrolysed, phosphate removed, releases energy
 - 30.5 kJ mol-1
 - ATP splits to ADP and Pi
 - Reversible
 - High turnover

ATP synthesis

- Substrate-linked reactions in _
 - Glycolysis -
 - Krebs cycle -

Roles of

- NAD
 - _ Acts as a coenzyme for dehydrogenase