Explain how sunlight is used to make ATP in photosynthesis

ENERGY TRANSFER

Explain how H₂O is used to make ATP in photosynthesis

ENERGY TRANSFER

Explain how CO₂ is used to make sugars in C3 photosynthesis

ENERGY TRANSFER

Explain how carbon fixation differs in C4 plants

ENERGY TRANSFER

Explain how carbon fixation differs in CAM plants

ENERGY TRANSFER

Explain how C4 plant leaves differ structurally than C3 plants

ENERGY TRANSFER

Explain how sunlight is used to make NADPH in photosynthesis

ENERGY TRANSFER

Explain how ATP & NADPH are used to build sugars in the Calvin Cycle

Explain how the energy of organic compounds are converted to ATP

ENERGY TRANSFER

Describe glycolysis

ENERGY TRANSFER

Describe the oxidation of pyruvate & the Krebs cycle

ENERGY TRANSFER

Describe the electron transport chain & explain how it functions to make ATP

ENERGY TRANSFER

Describe the role of NADH & FADH₂ in cellular respiration

ENERGY TRANSFER

Describe the role of oxygen in cellular respiration

ENERGY TRANSFER

Describe & diagram the structure of the mitochondria

ENERGY TRANSFER

Describe & diagram the structure of the chloroplast

Explain how ATP serves as an energy currency molecule

ENERGY TRANSFER

Explain how a proton gradient is used to build ATP in cellular respiration

ENERGY TRANSFER

Explain how a proton gradient is used to build ATP in photosynthesis

ENERGY TRANSFER

Explain chemiosmosis

ENERGY TRANSFER

Describe the transfer of energy through a food pyramid

ENERGY TRANSFER

Explain how the hydrolysis of ATP is used in the synthesis of macromolecules

ENERGY TRANSFER

Explain how the hydrolysis of ATP is used to move muscle

ENERGY TRANSFER

Explain how the hydrolysis of ATP is used to activate proteins

Explain how energy coupling is used to drive endergonic reactions

ENERGY TRANSFER

Explain how energy molecules are used in DNA replication

ENERGY TRANSFER

Explain the need for enzymes in living organisms

ENERGY TRANSFER

Explain how enzymes function

ENERGY TRANSFER

Explain the induced fit model of enzyme function

ENERGY TRANSFER

Draw a graph showing the effect of enzymes on an endergonic reaction

ENERGY TRANSFER

Draw a graph showing the effect of enzymes on an exergonic reaction

ENERGY TRANSFER

Explain how pH affects enzyme function

Explain how temperature affects enzyme function

ENERGY TRANSFER

Explain how salinity affects enzyme function

ENERGY TRANSFER

Give an example of a common synthesis enzyme

ENERGY TRANSFER

Give an example of a common digestive enzyme

ENERGY TRANSFER

Explain primary productivity

ENERGY TRANSFER

Explain gross primary productivity

ENERGY TRANSFER

Explain net primary productivity

ENERGY TRANSFER

Explain how dissolved oxygen relates to primary productivity

Diagram and describe a marine food chain

ENERGY TRANSFER

Diagram and describe a terrestrial food chain

ENERGY TRANSFER

Explain alcohol fermentation

ENERGY TRANSFER

Explain lactic acid fermentation

ENERGY TRANSFER

Describe how enzyme function can be measured in an experiment

ENERGY TRANSFER

Describe how rate of respiration can be measured in an experiment

ENERGY TRANSFER

Describe how rate of photosynthesis can be measured in an experiment

ENERGY TRANSFER

List and describe the function of all the enzymes of the digestive system

ENERGY TRANSFER	ENERGY TRANSFER
Describe the	
structure of ATP	
ENERGY TRANSFER	ENERGY TRANSFER
ENERGY TRANSFER	ENERGY TRANSFER
ENERGY TRANSFER	ENERGY TRANSFER