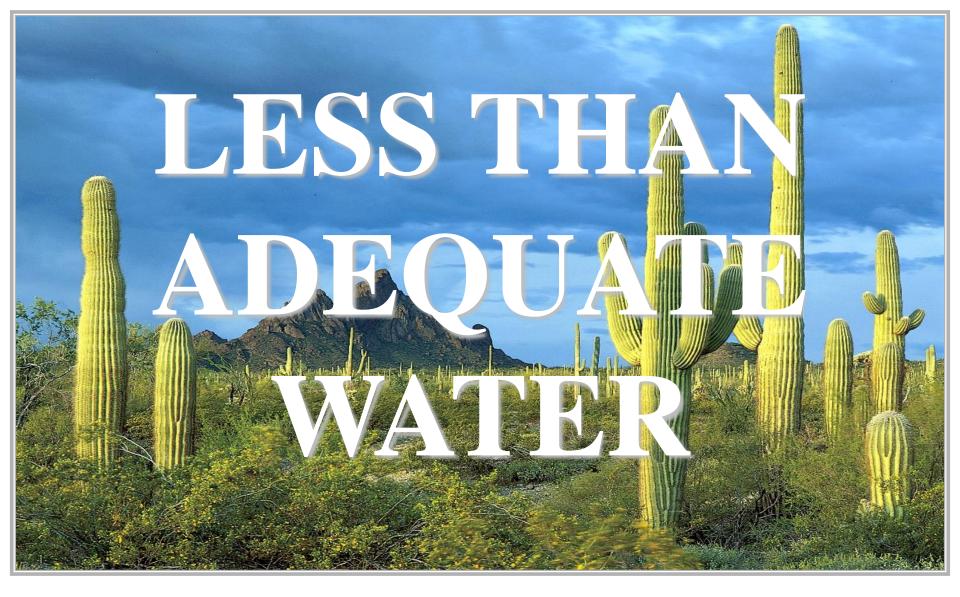
CAM ECOLOGY





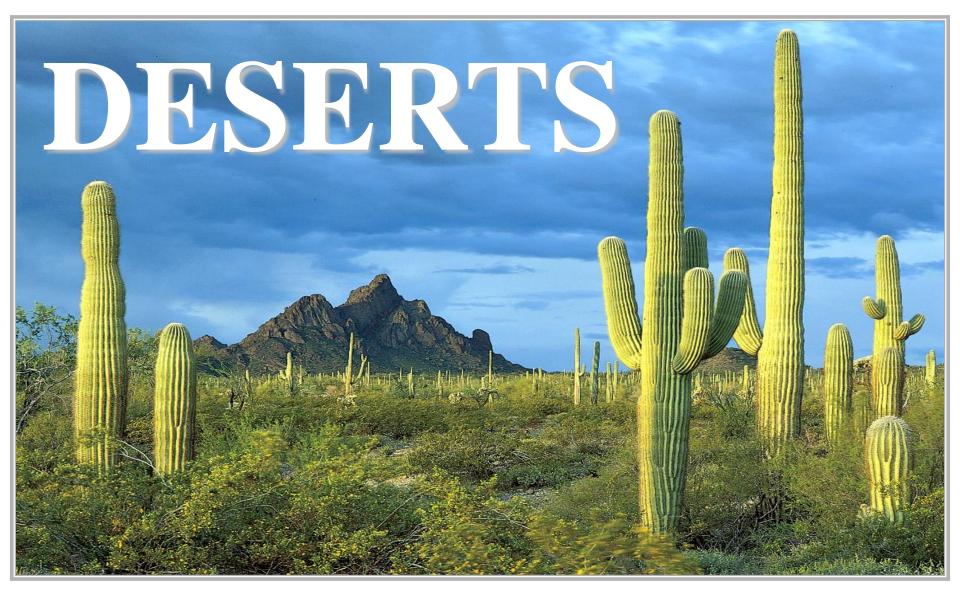
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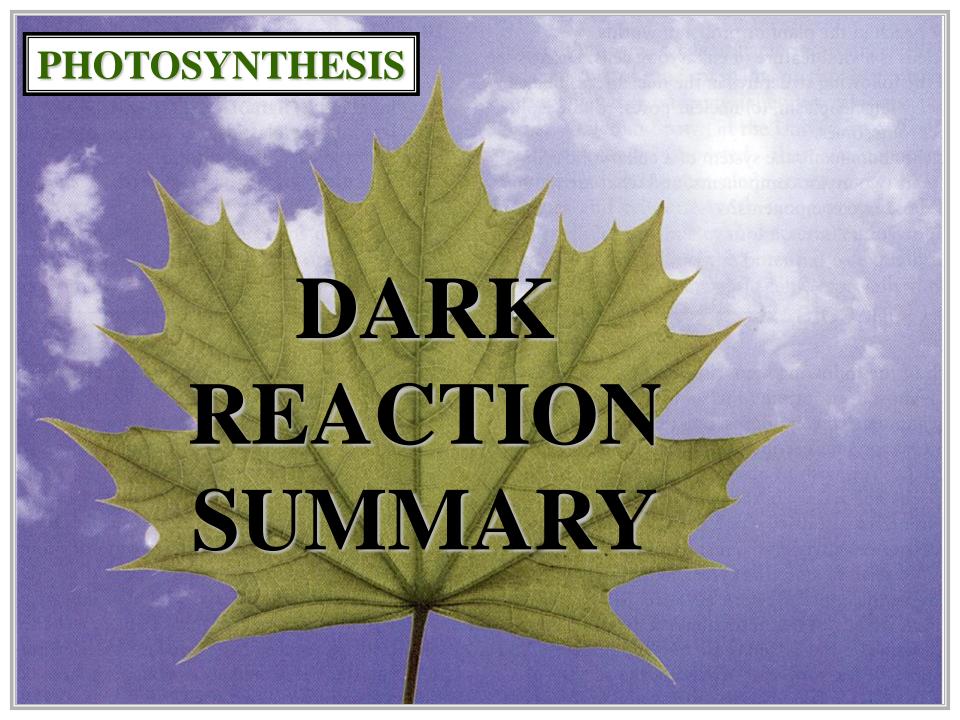




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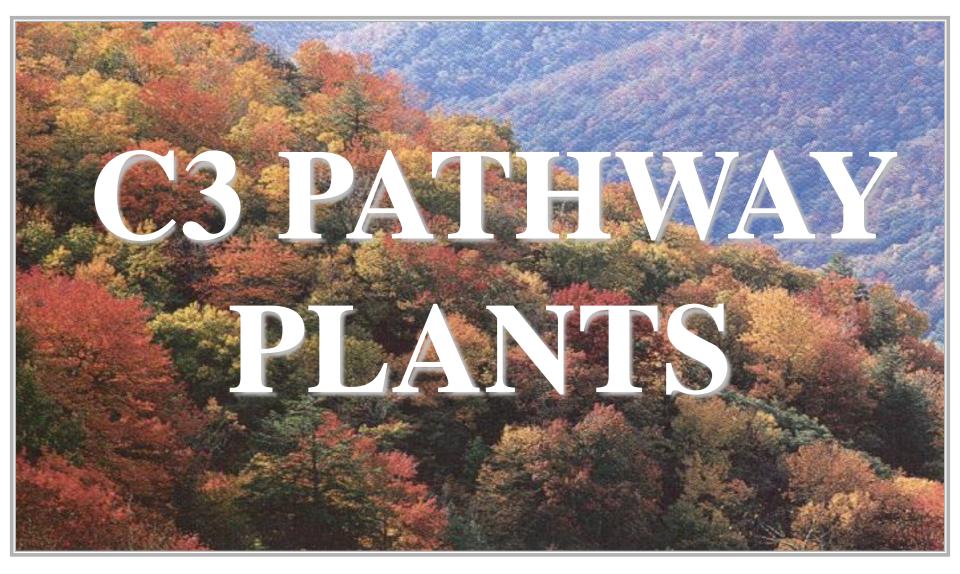
DARK REACTION



MESIC HABITATS

Λ

DARK REACTION



MESIC HABITATS

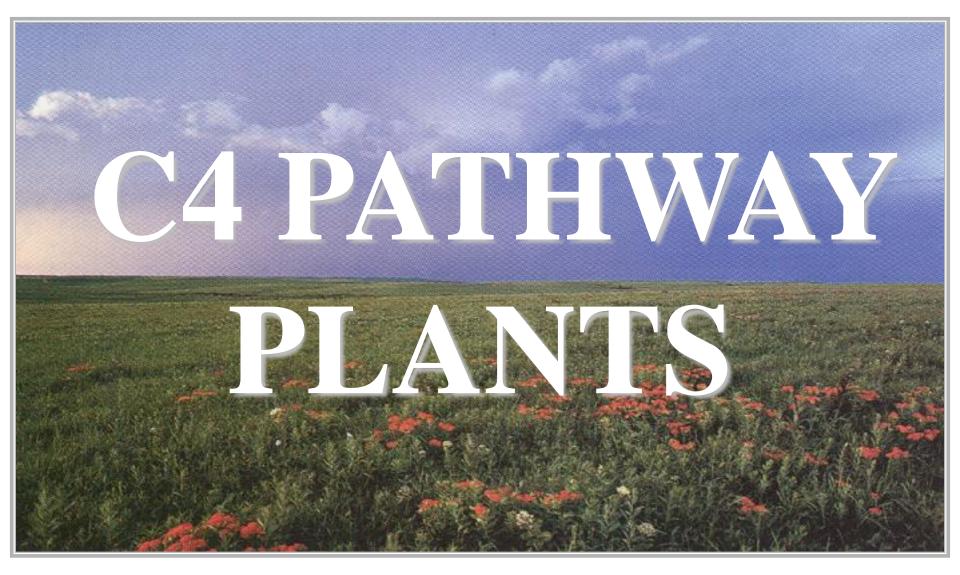
DARK REACTION



XERIC HABITATS

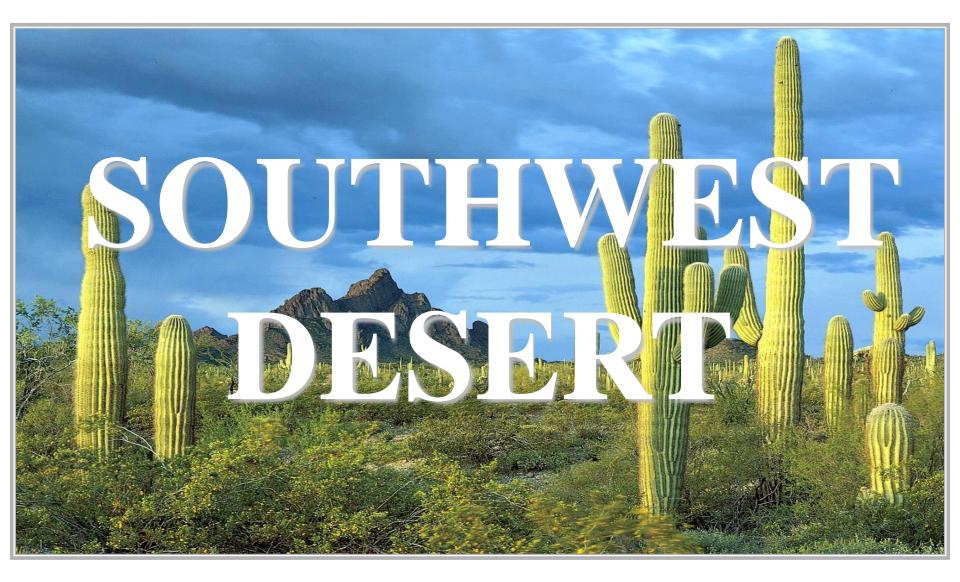
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DARK REACTION



XERIC HABITATS

DARK REACTION



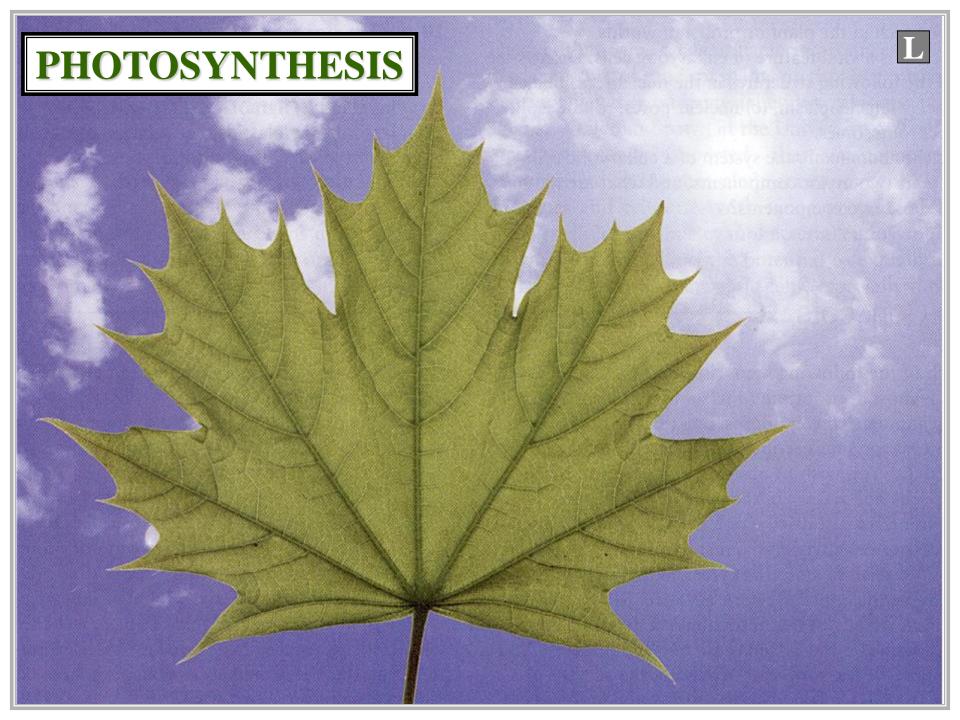
DARK REACTION

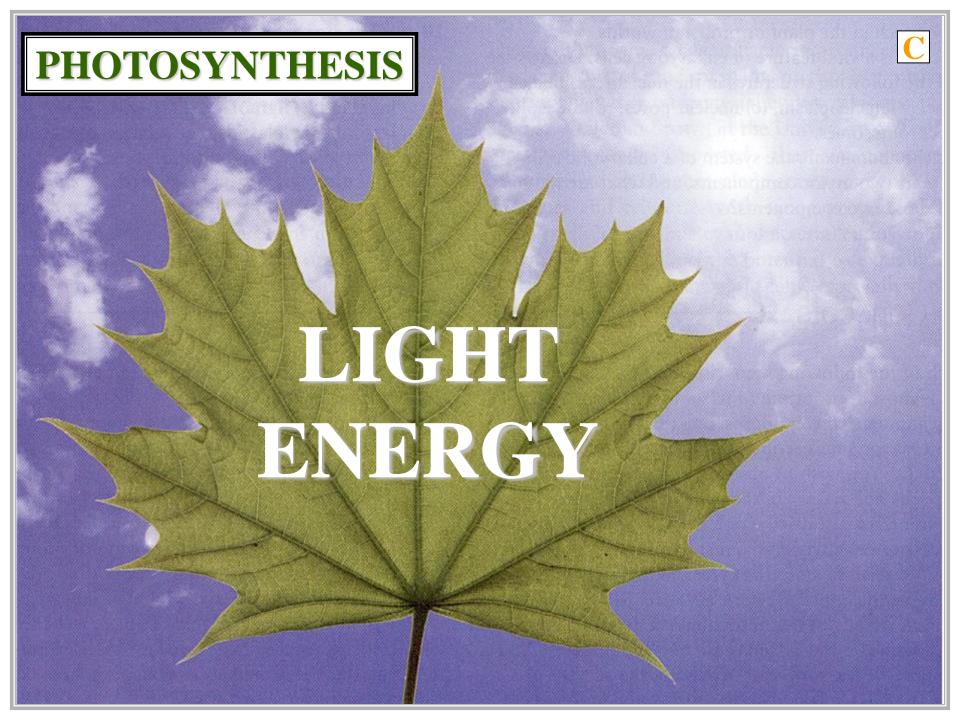


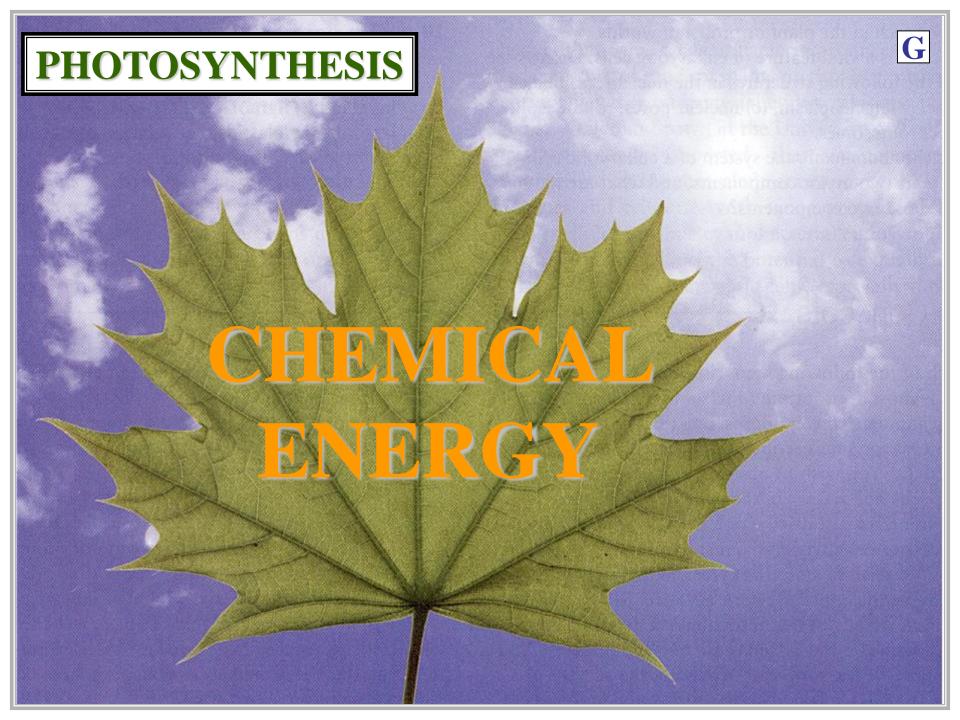


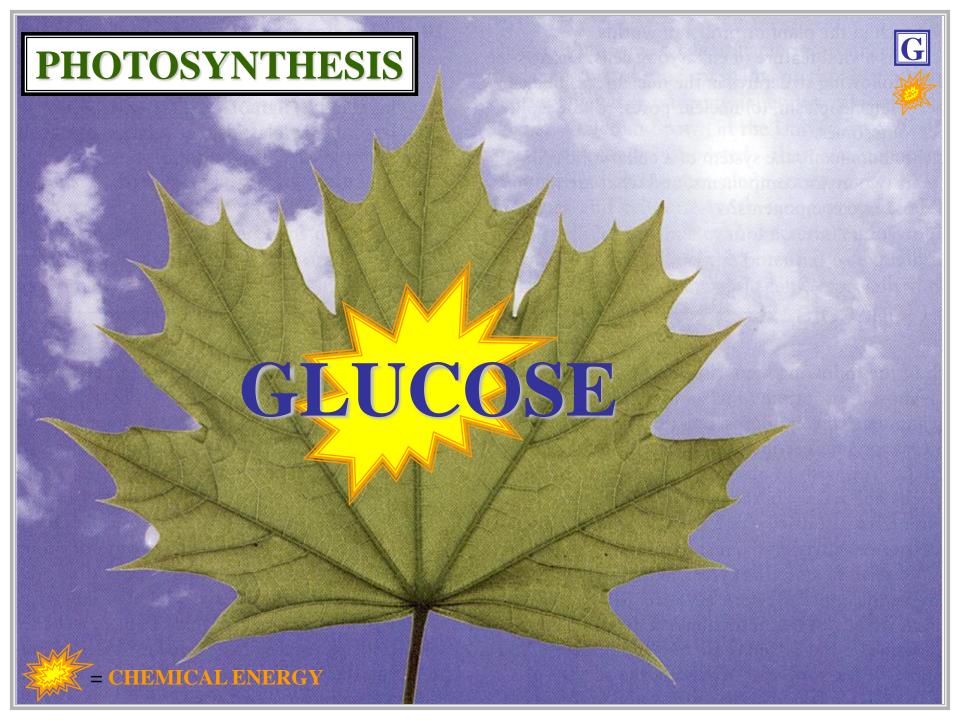


CHAPTER 09 RESPIRATION



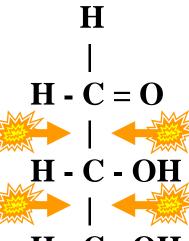


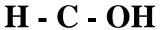






GLUCOSE







H - C - OH



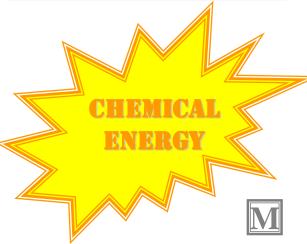
H - C - OH



H - C - OH

| H











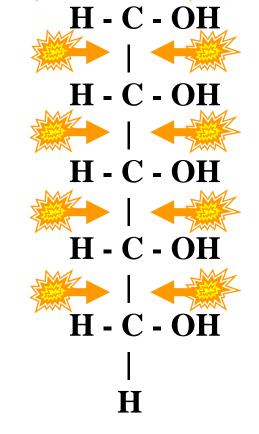
GLUCOSE





ENTERS METABOLISM





ENTERS METABOLISM





GLUCOSE METABOLIC ROUTES

GLUCOSE METABOLIC ROUTES

ENERGY STORAGE

GLUCOSE METABOLIC ROUTES

GLUCOSE METABOLIC ROUTES

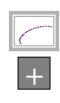
ENERGY STORAGE ANABOLIC METABOLISM

GLUCOSE METABOLIC ROUTES

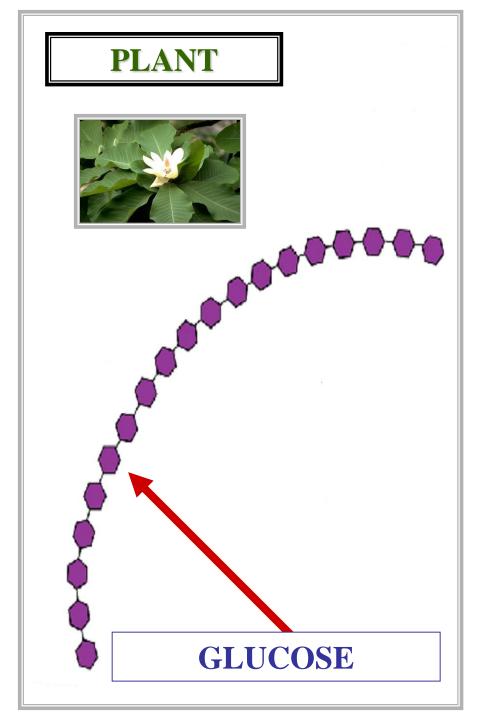
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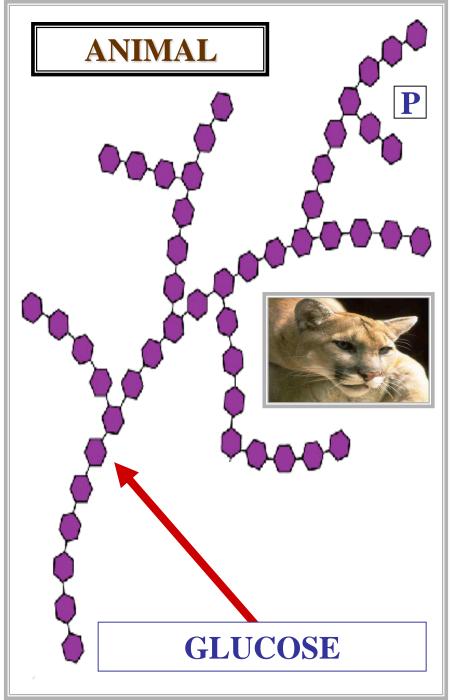
ENERGY STORAGE ANABOLIC METABOLISM CATABOLIC METABOLISM

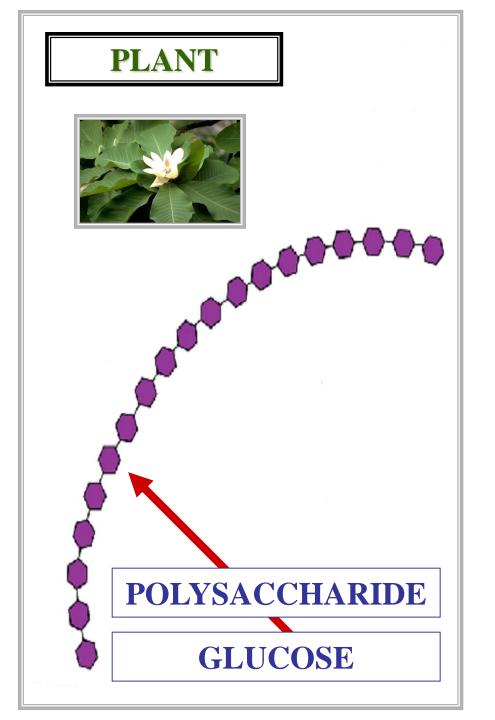
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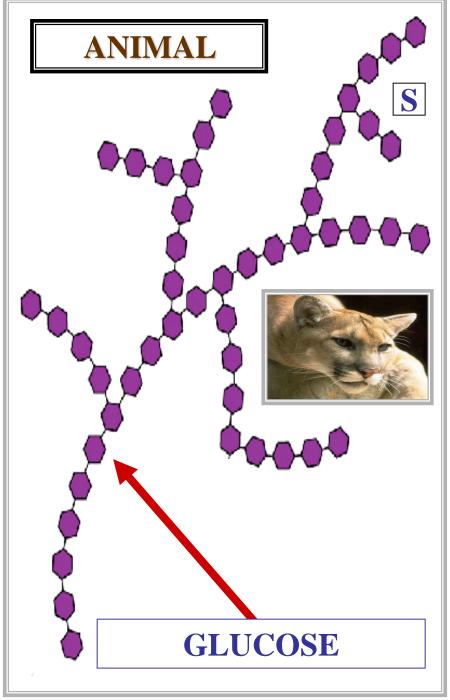


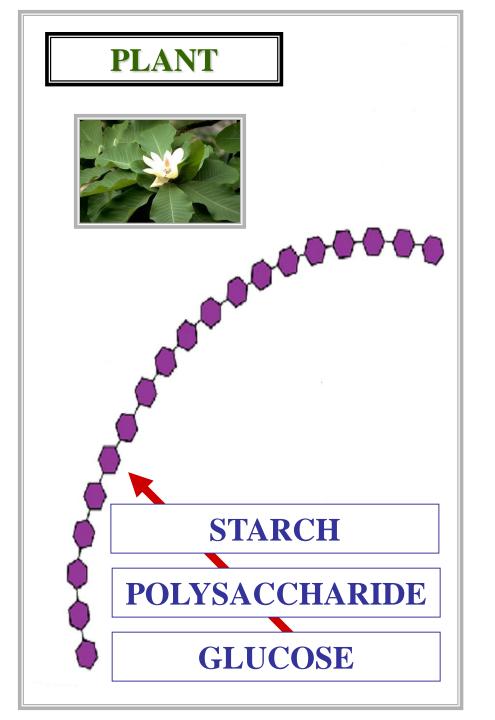
GLUCOSE ENERGY STORAGE

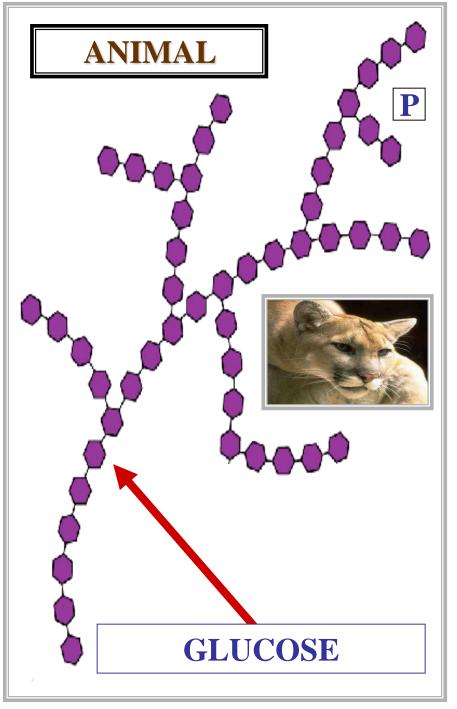


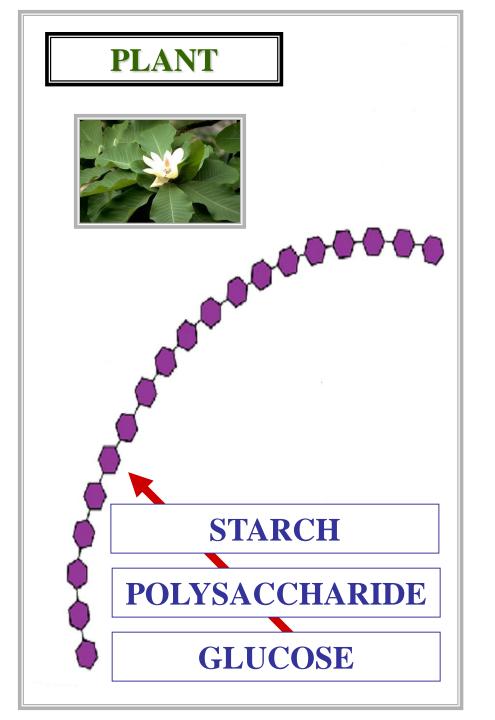


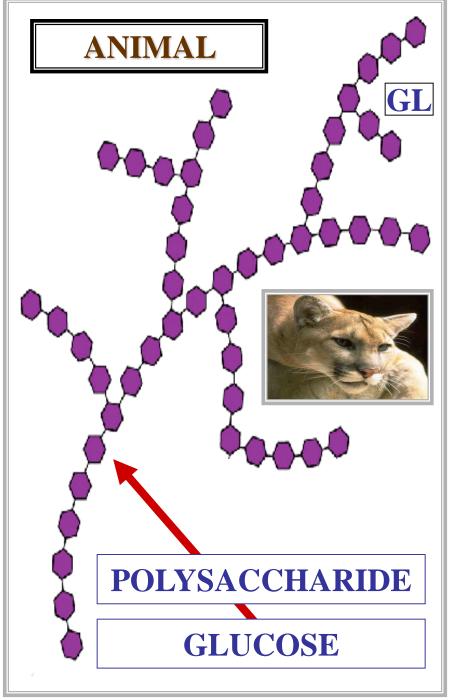


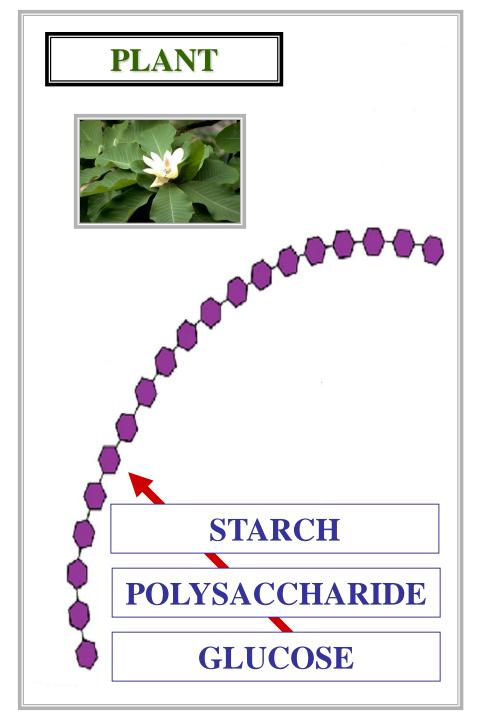


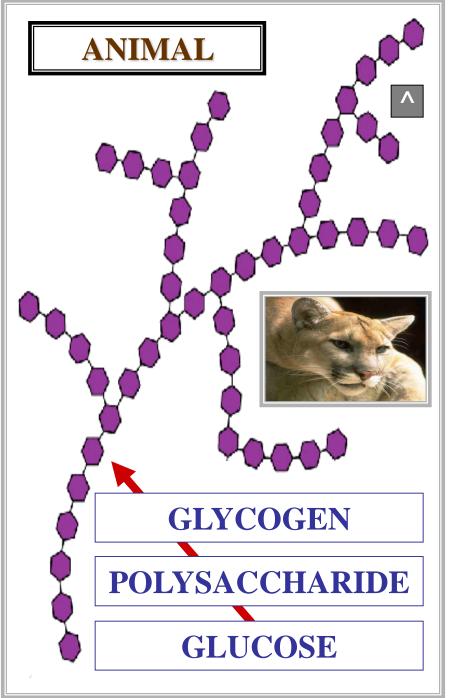














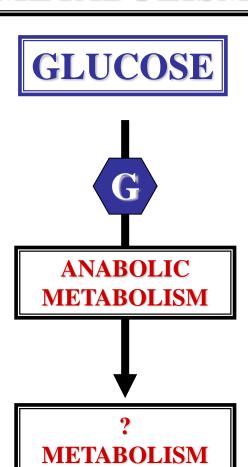
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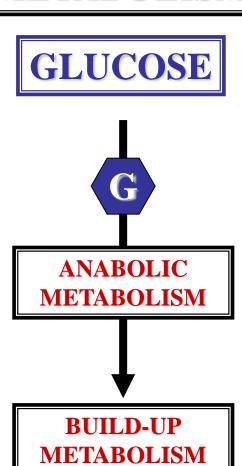
GLUCOSE





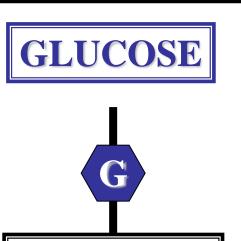










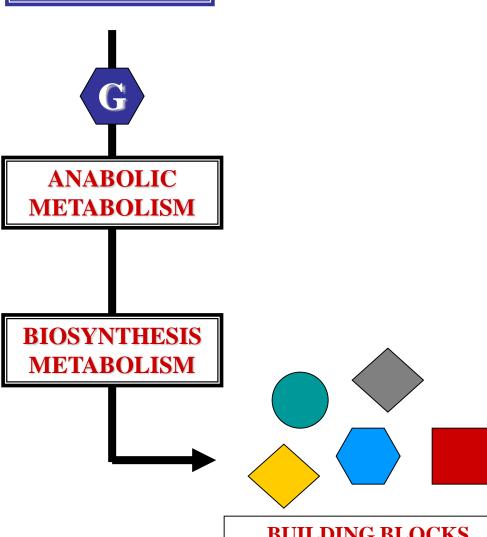


ANABOLIC METABOLISM

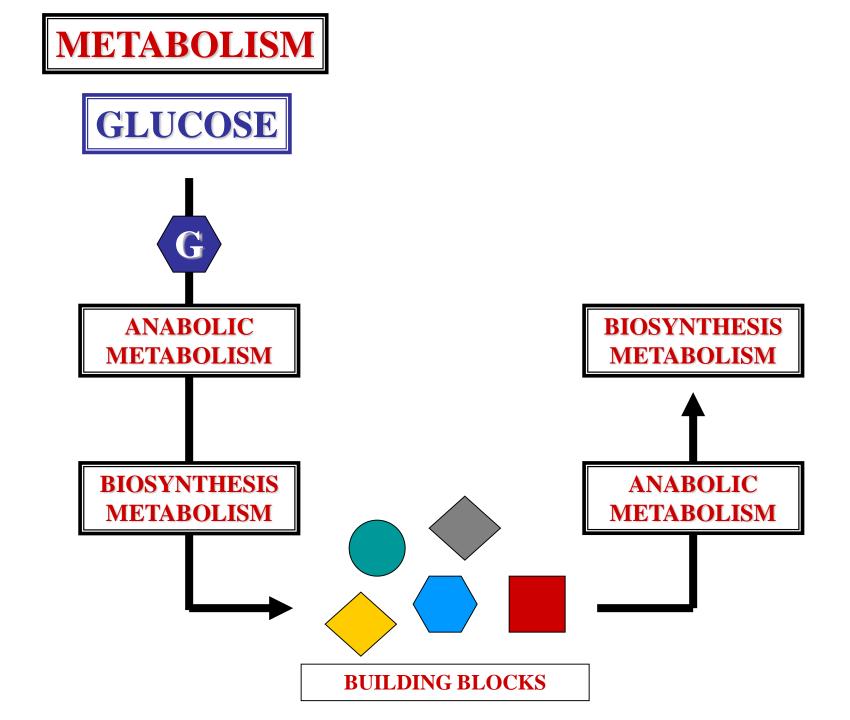
BIOSYNTHESIS METABOLISM

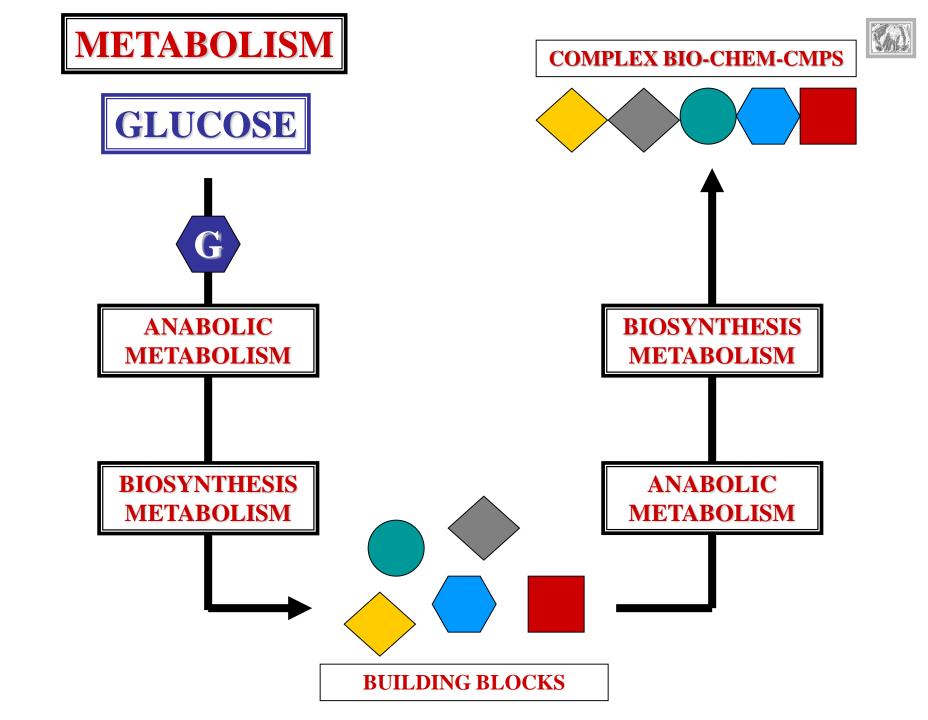


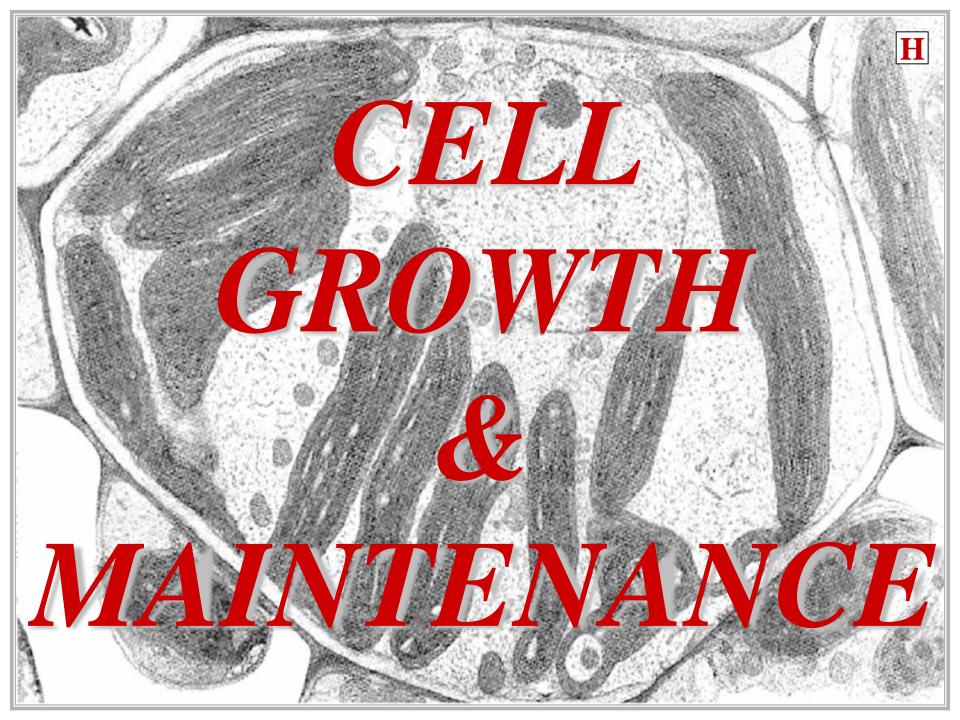




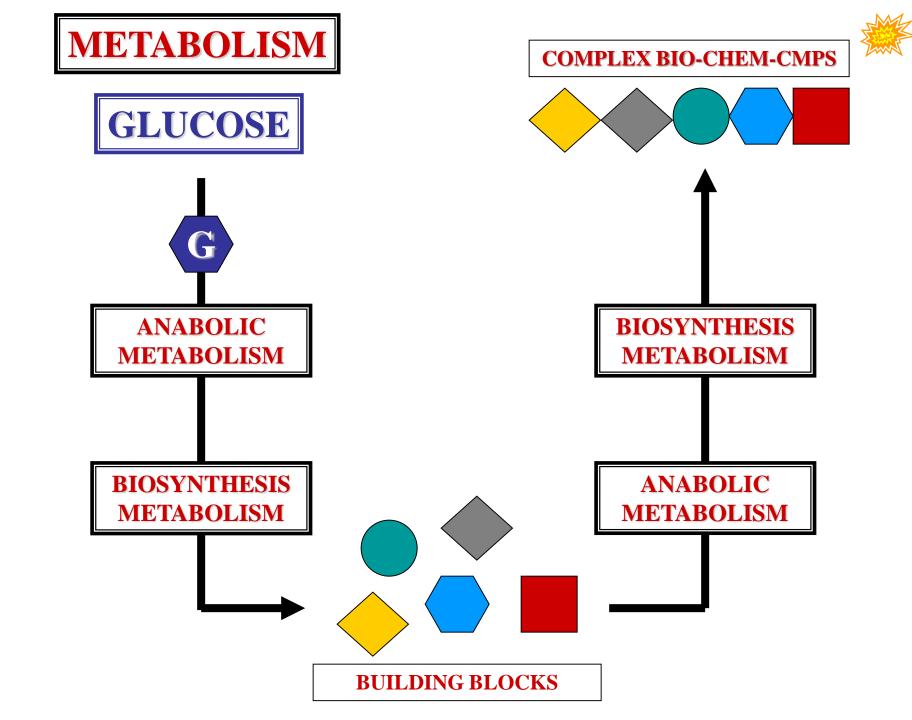
BUILDING BLOCKS

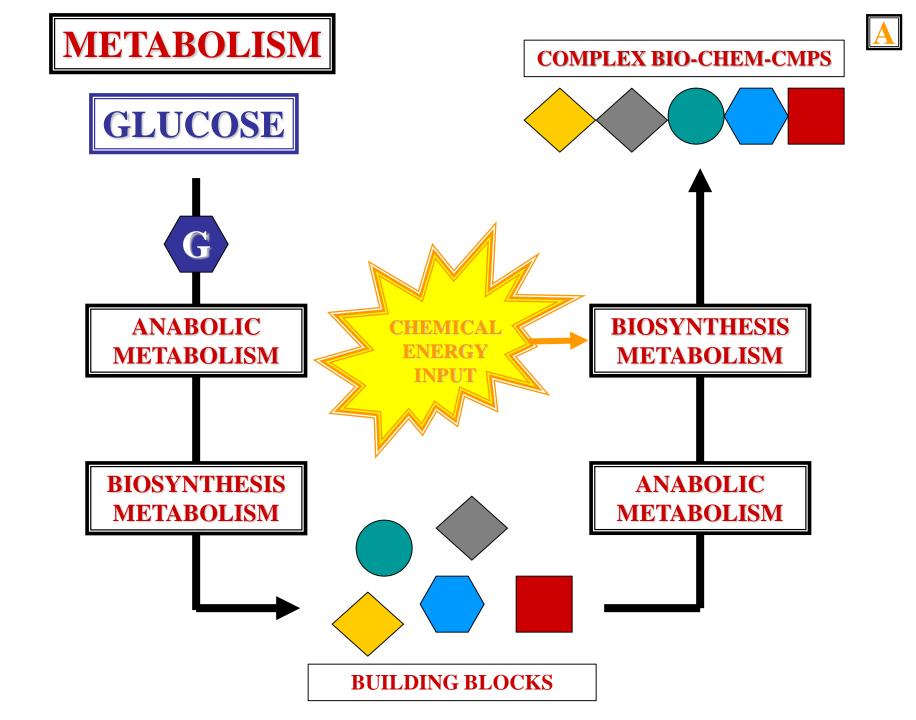


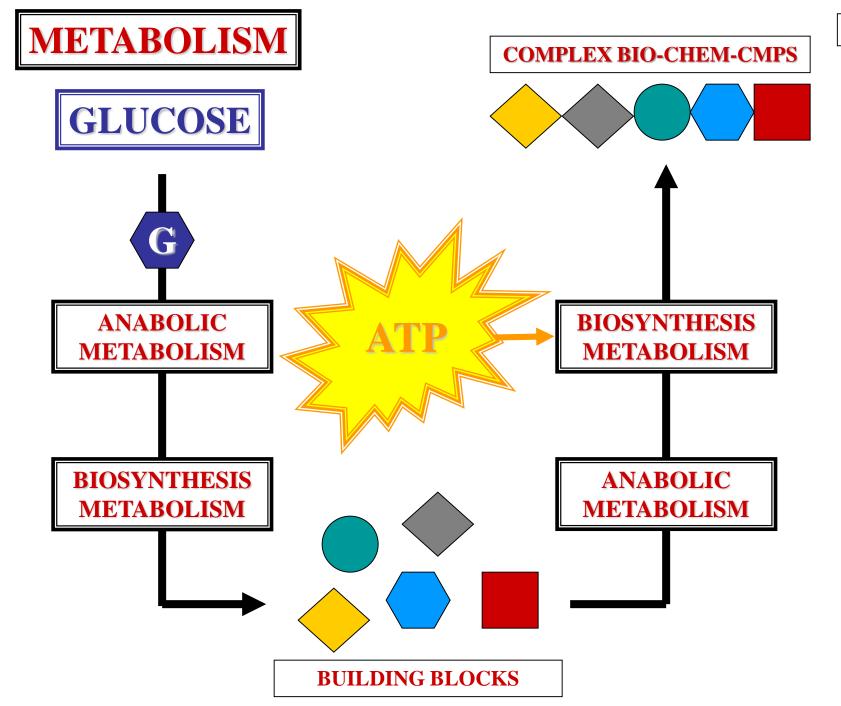












QUESTION

WHAT IS GOING TO PROVIDE ANABOLIC METABOLISM WITH ATP CHEMICAL ENERGY INPUT?

QUESTION

ANSWER

CATABOLIC METABOLISM

ANSWER



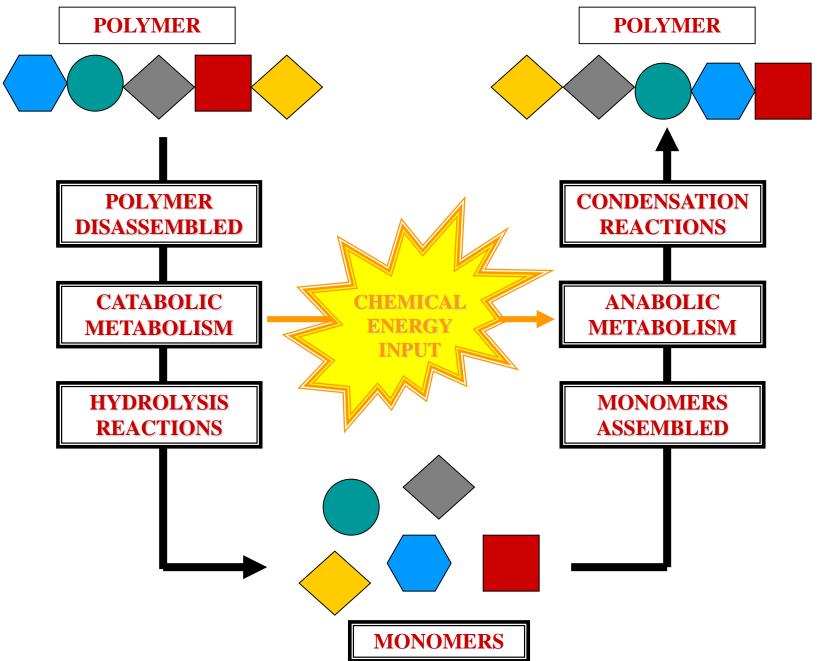
ANABOLIC METABOLISM CATABOLIC METABOLISM

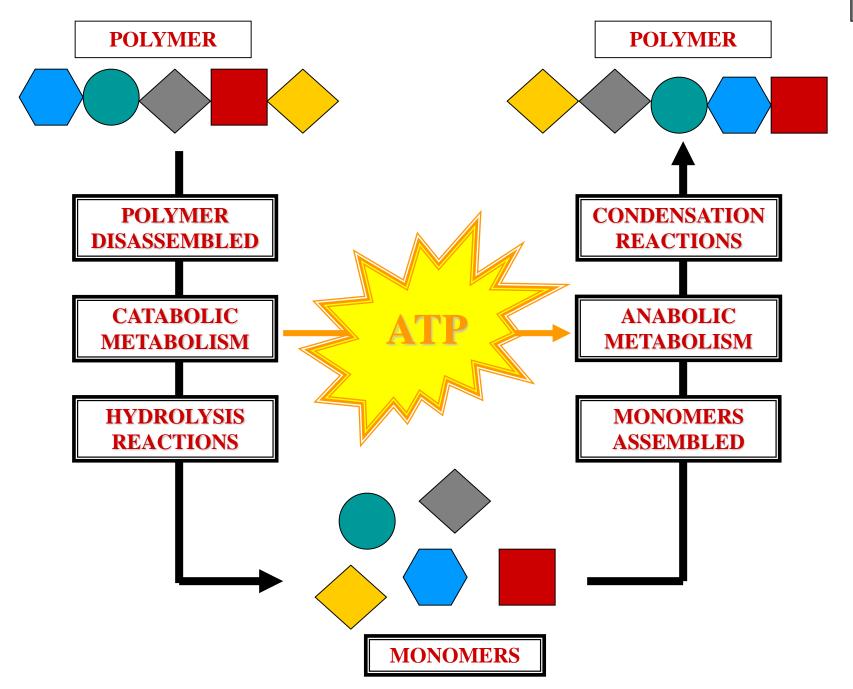


ANABOLIC METABOLISM CATABOLIC METABOLISM

!!!COUPLED!!!









GLUCOSE CATABOLIC METABOLISM



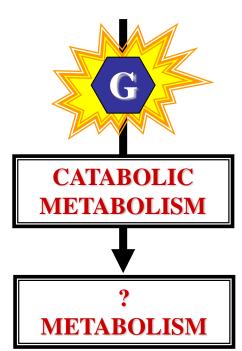


GLUCOSE







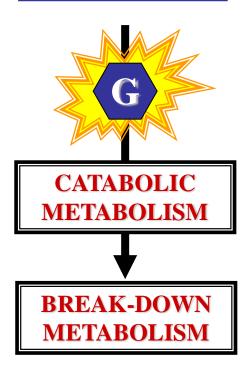






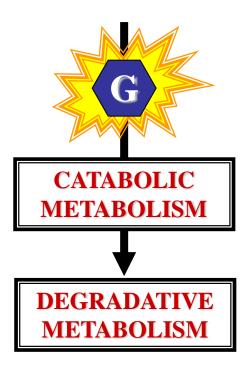








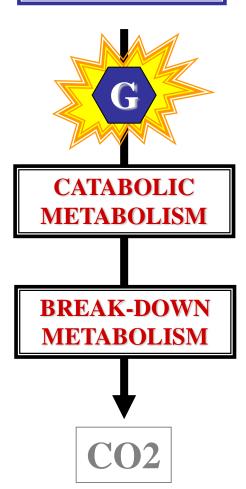




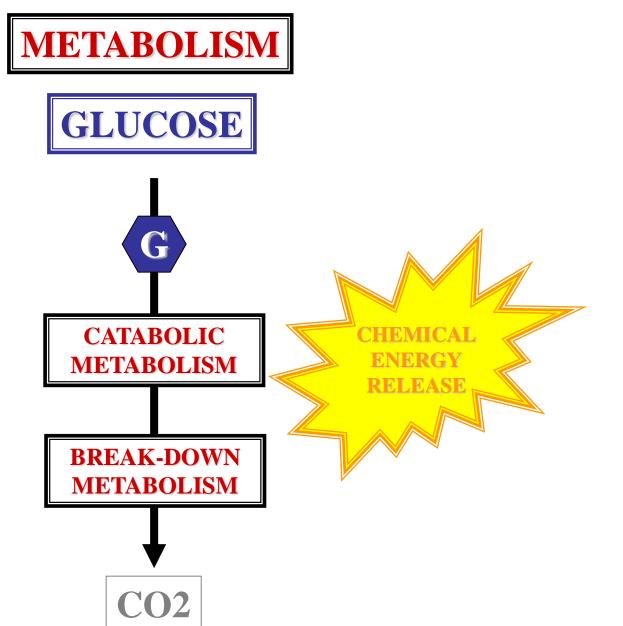




GLUCOSE









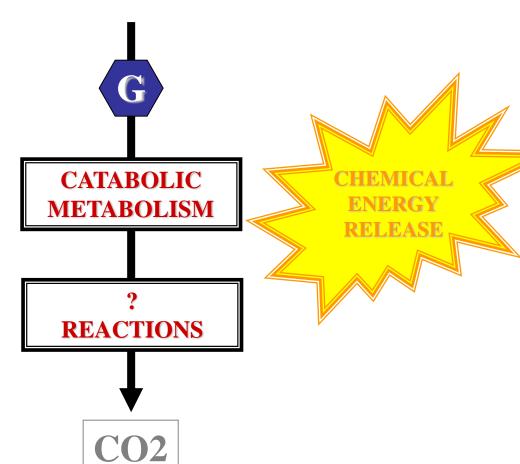




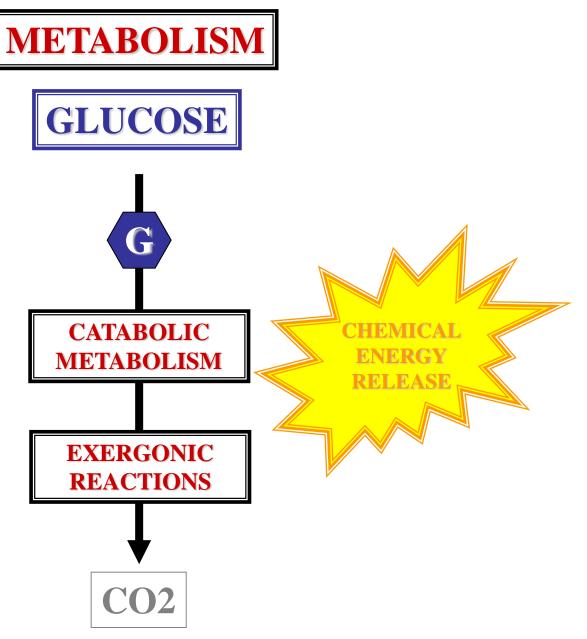






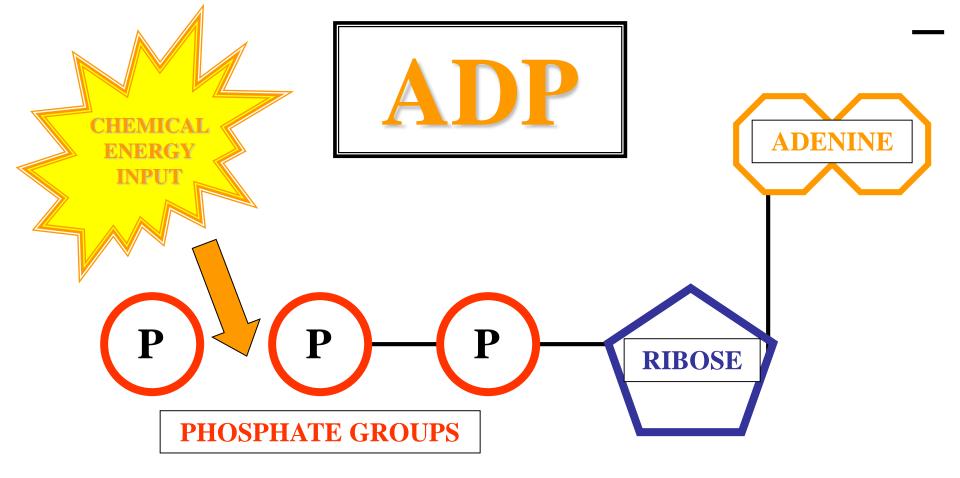


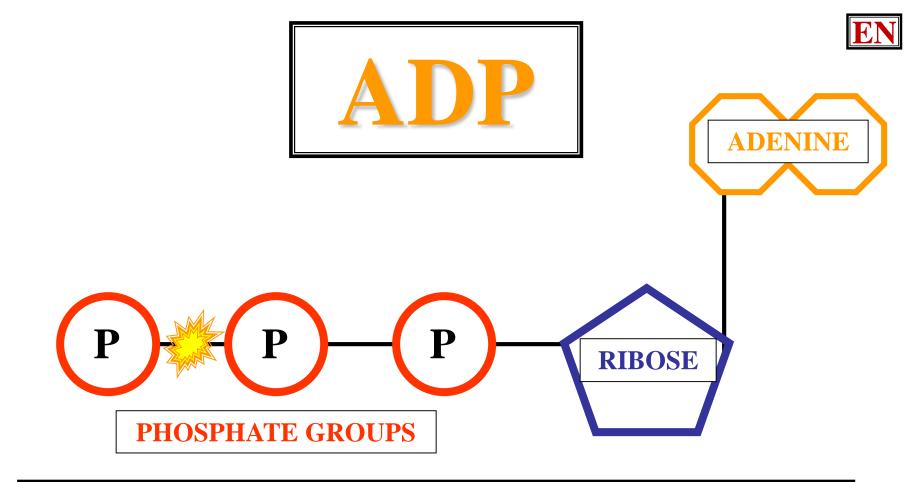




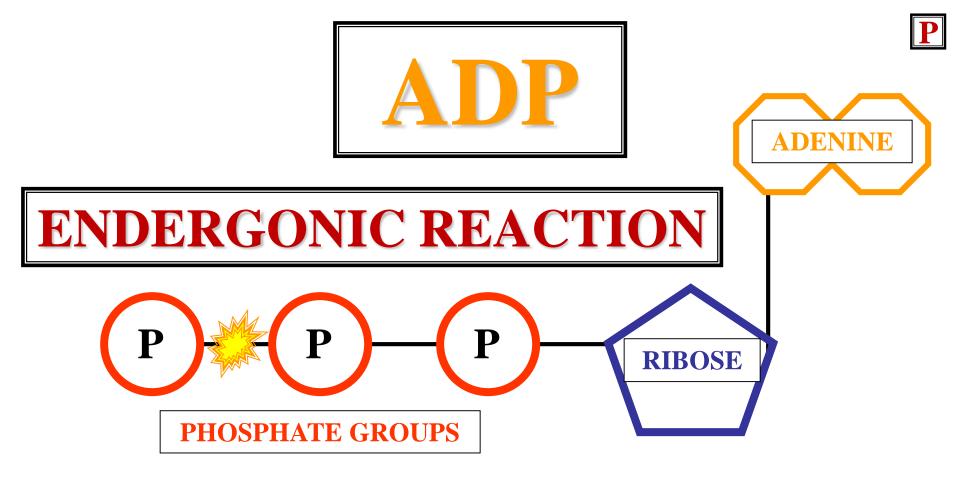




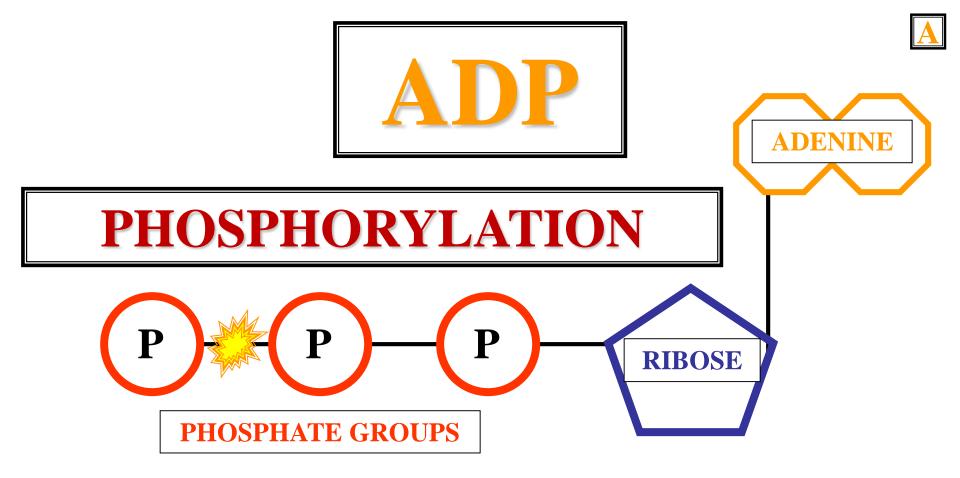










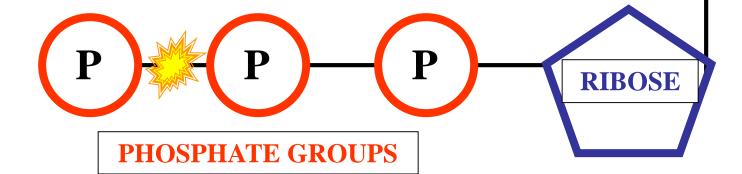








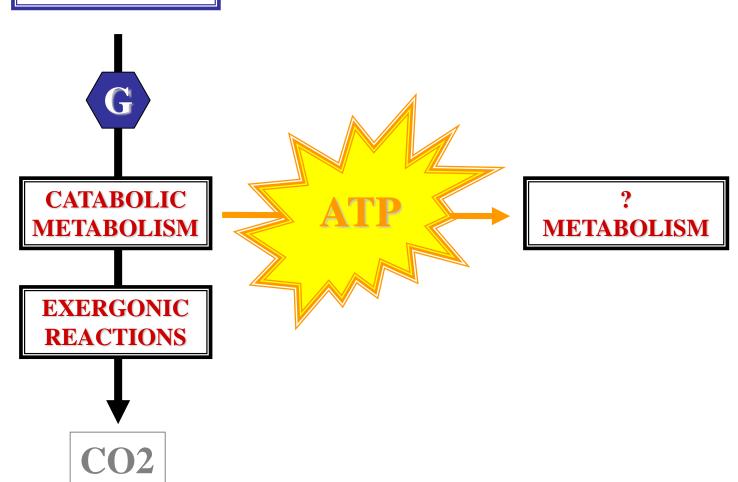
PHOSPHORYLATION









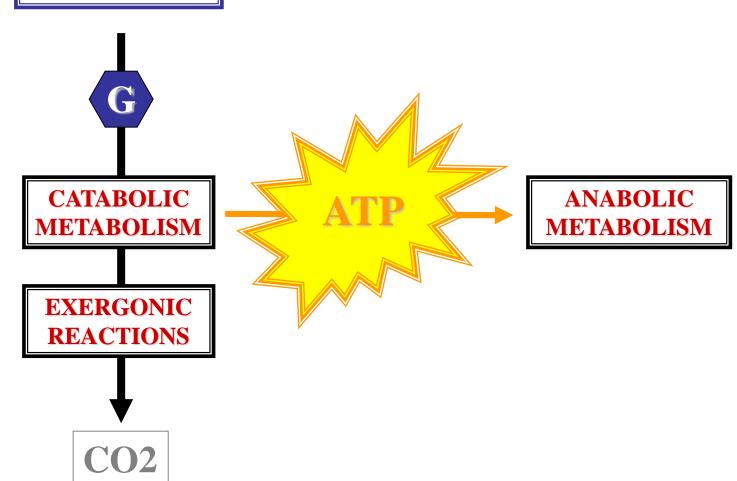




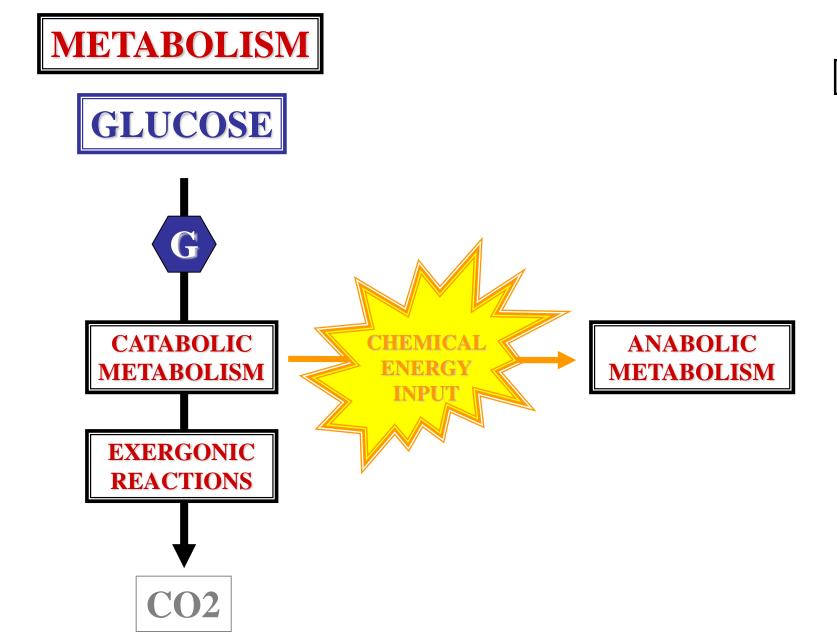








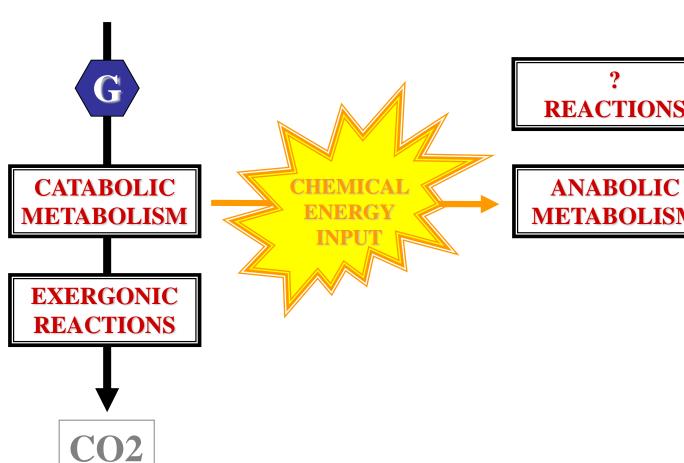






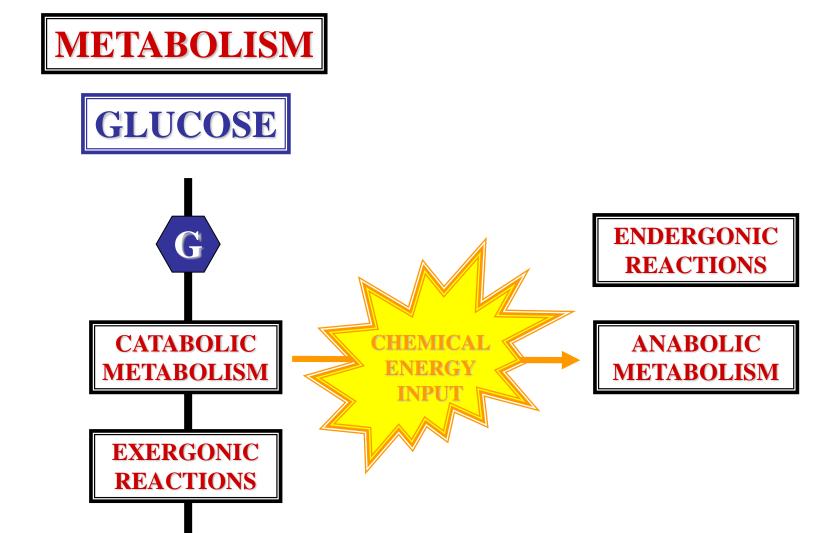






REACTIONS

METABOLISM

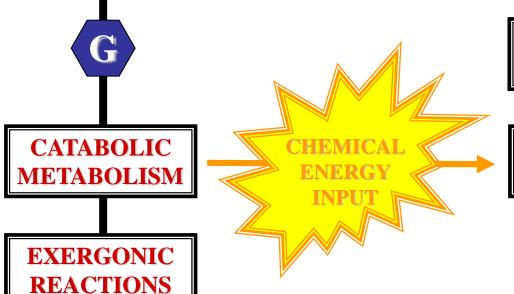


B



CO₂



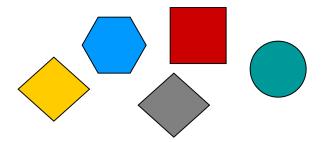


ENDERGONIC REACTIONS

ANABOLIC METABOLISM

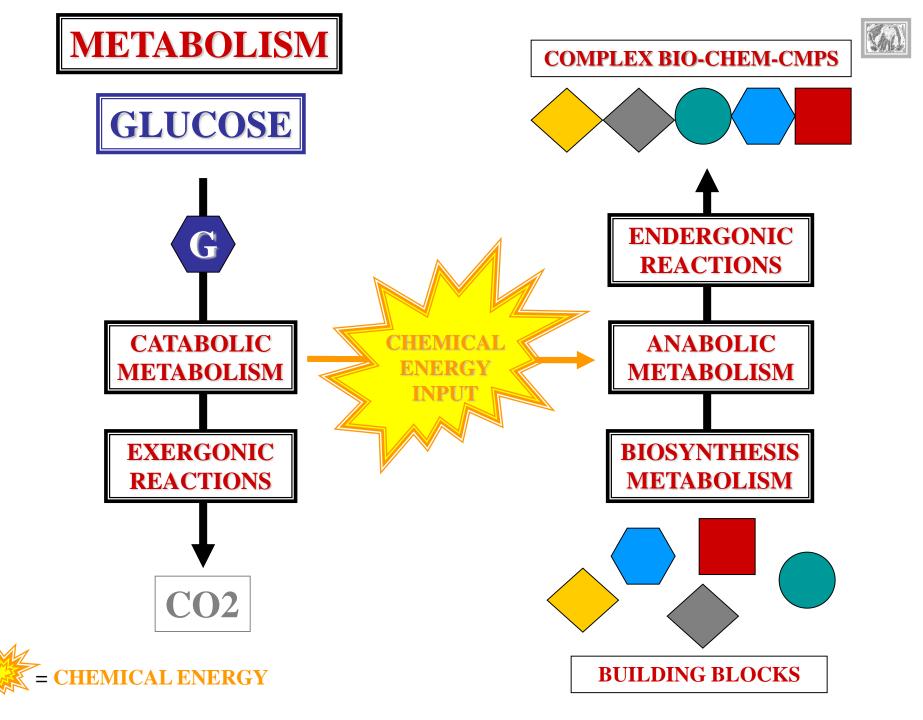
REACTIONS

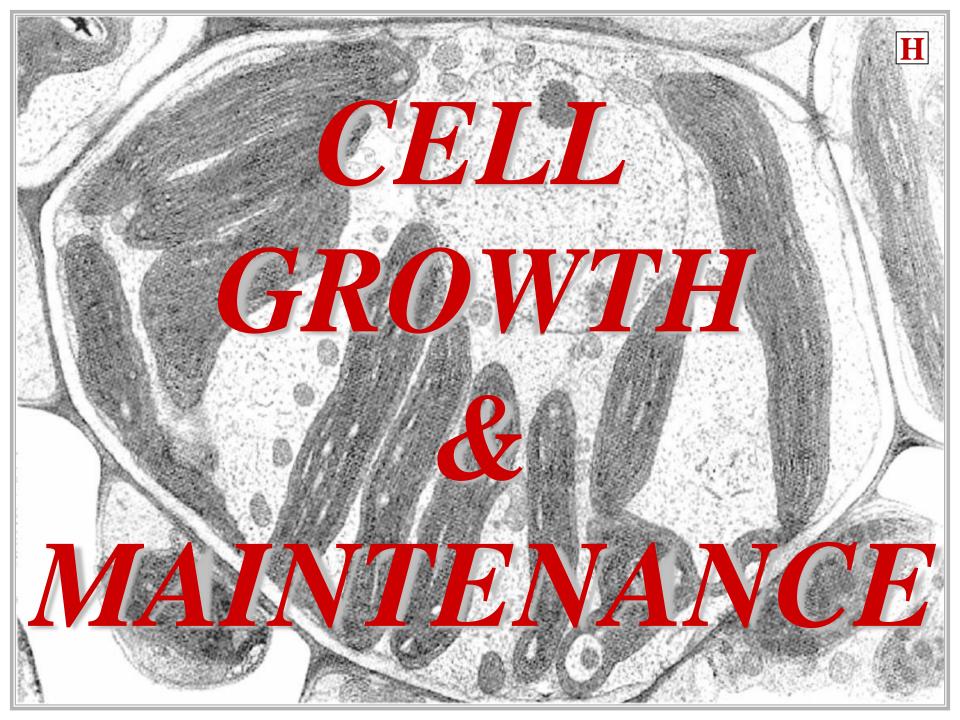
CO₂



BUILDING BLOCKS











QUESTION WHAT DO BIOLOGISTS CALL GLUCOSE **BREAK-DOWN TO CO2** WITH A CHEM-EGY RELEASE WITH ATP PHOSPHORYLATION? QUESTION

ANSWER

RESPIRATION

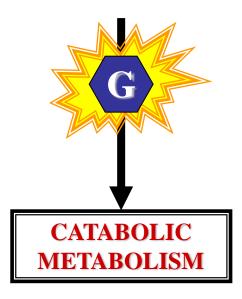
ANSWER



GLUCOSE



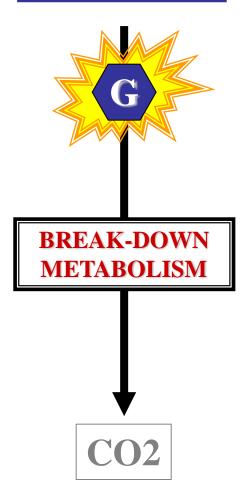




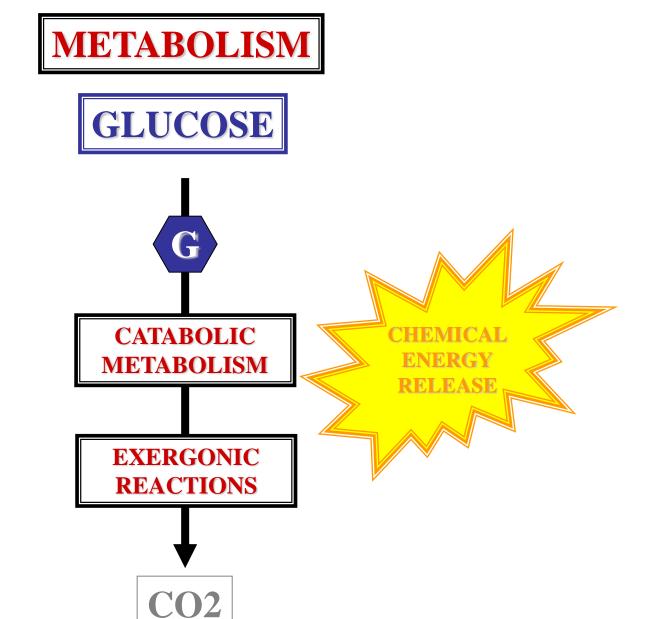








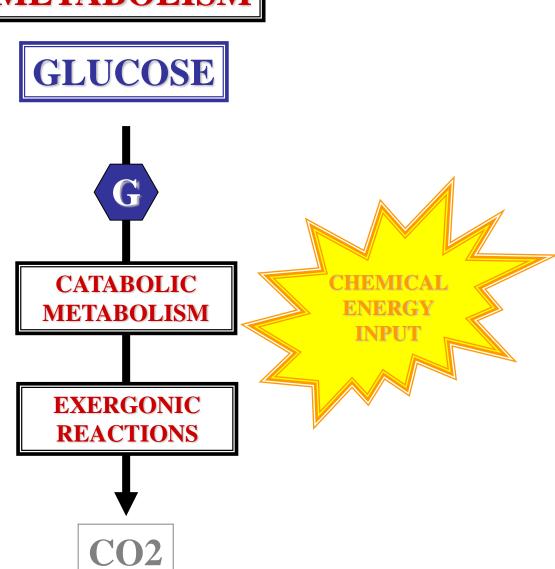




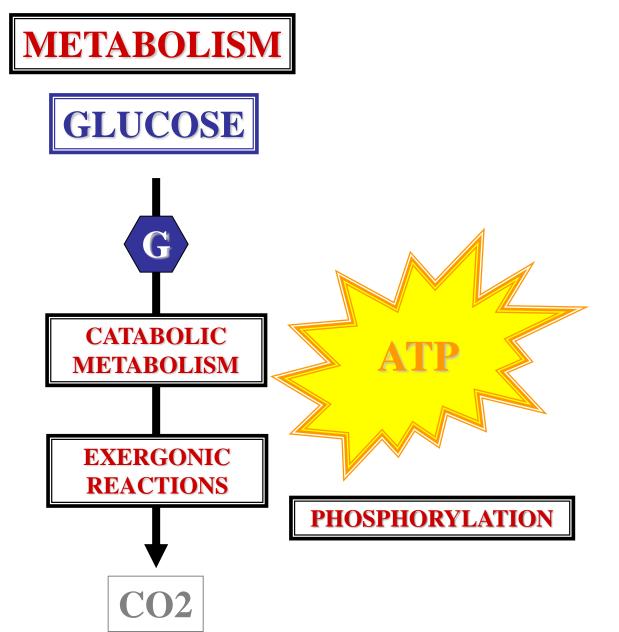






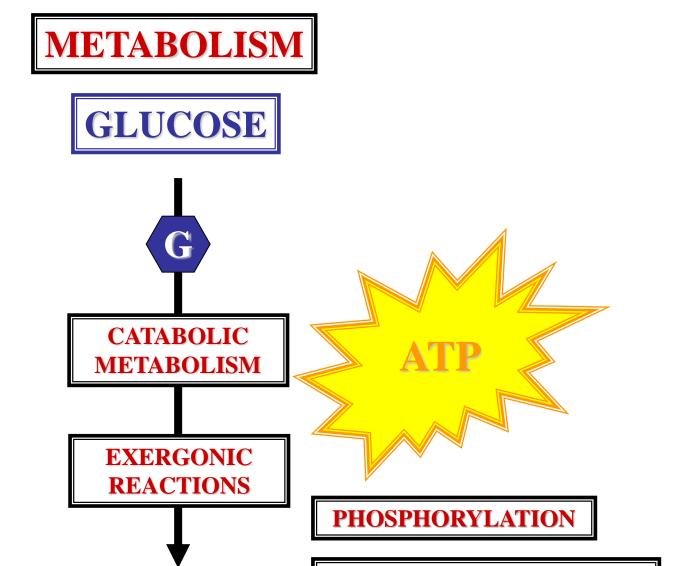














CO₂



METABOLISM GLUCOSE G **CATABOLIC METABOLISM EXERGONIC**

PHOSPHORYLATION

RESPIRATION



REACTIONS

CO₂



RESPIRATION GLUCOSE BREAK-DOWN TO CARBON DIOXIDE (CO2) ->

RESPIRATION GLUCOSE BREAK-DOWN TO CARBON DIOXIDE (CO2) CHEMICAL EGY RELEASED

RESPIRATION **GLUCOSE BREAK-DOWN** TO CARBON DIOXIDE (CO2) CHEMICAL EGY RELEASED ATP PHOSPHORYLATION RESPIRATION



RESPIRATION TYPES

RESPIRATION TYPES

AEROBIC RESPIRATION

RESPIRATION TYPES

RESPIRATION TYPES

AEROBIC RESPIRATION ANAEROBIC RESPIRATION

RESPIRATION TYPES

RESPIRATION OVERVIEW



AEROBIC RESPIRATION OVERVIEW

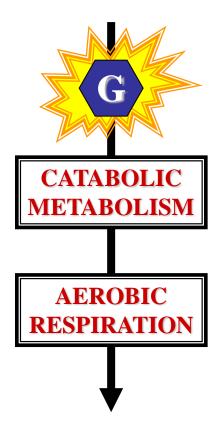








GLUCOSE

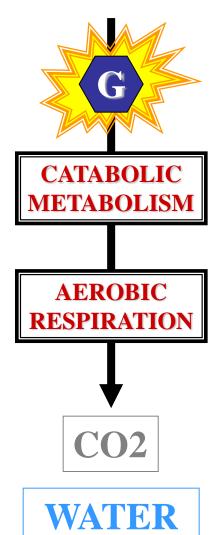




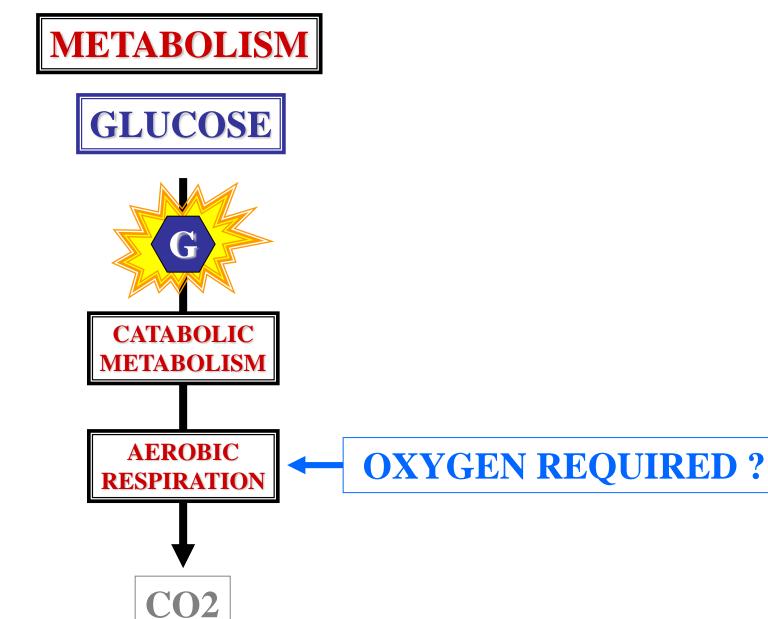




GLUCOSE









R



GLUCOSE



OXYGEN REQUIRED

WATER

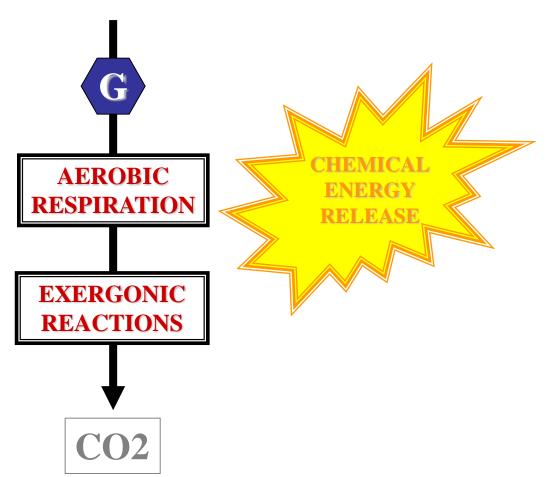








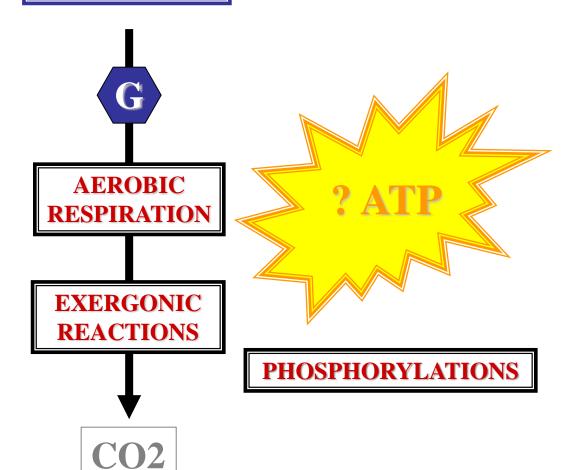
GLUCOSE



WATER



GLUCOSE

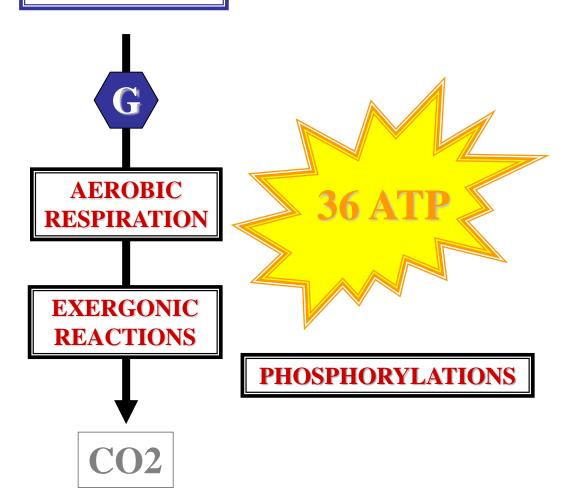


WATER

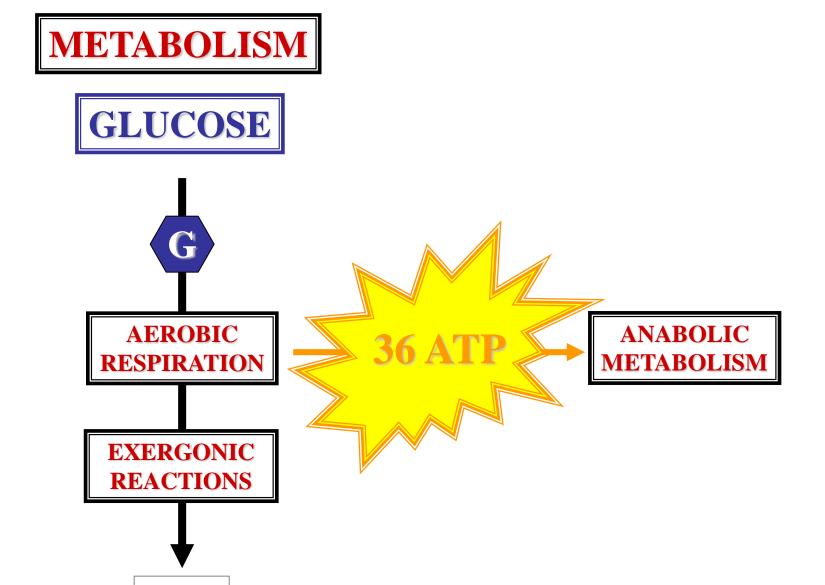












CO₂



B

METABOLISM GLUCOSE G **AEROBIC ANABOLIC METABOLISM RESPIRATION EXERGONIC REACTIONS** CO₂

BUILDING BLOCKS





