

Chapter 07 Keys to Success

What are heterotrophs and autotrophs? What kinds of organism fall into each category?

What is the role of water in photosynthesis?

What occurs in the light reactions? The dark reactions (Calvin Cycle)?

What type of overall redox occurs in photosynthesis?

Regarding chlorophyll, what spectrum of visible light doesn't power photosynthesis and why?

What are the main photosynthetic pigments? What is the role of a pigment?

What is the product of photosystem II and what is the mechanism for creating it?

What is the product of photosystem I?

What does it mean to fix a gas?

What two molecules combine to start off the Calvin cycle? What products come out of the Calvin cycle?

What can G3P go on to form?

What environmental pressures led to the evolution of CAM and C4 photosynthetic plants?

Why were these adaptations necessary?

What adaptations have CAM and C4 photosynthetic plants evolved?