

A. Do the following items.

1. Discuss the role of rubisco in photosynthesis and in photorespiration.
2. Explain how the C_4 and the CAM pathways solve the problem of photorespiration.

B. Summarize the differences among C_3 , C_4 , and CAM photosynthetic pathways by completing the following table.

Criteria	C_3	C_4	CAM
immediate product of carboxylation			
carboxylating enzyme			
cells involved			
environment favored			