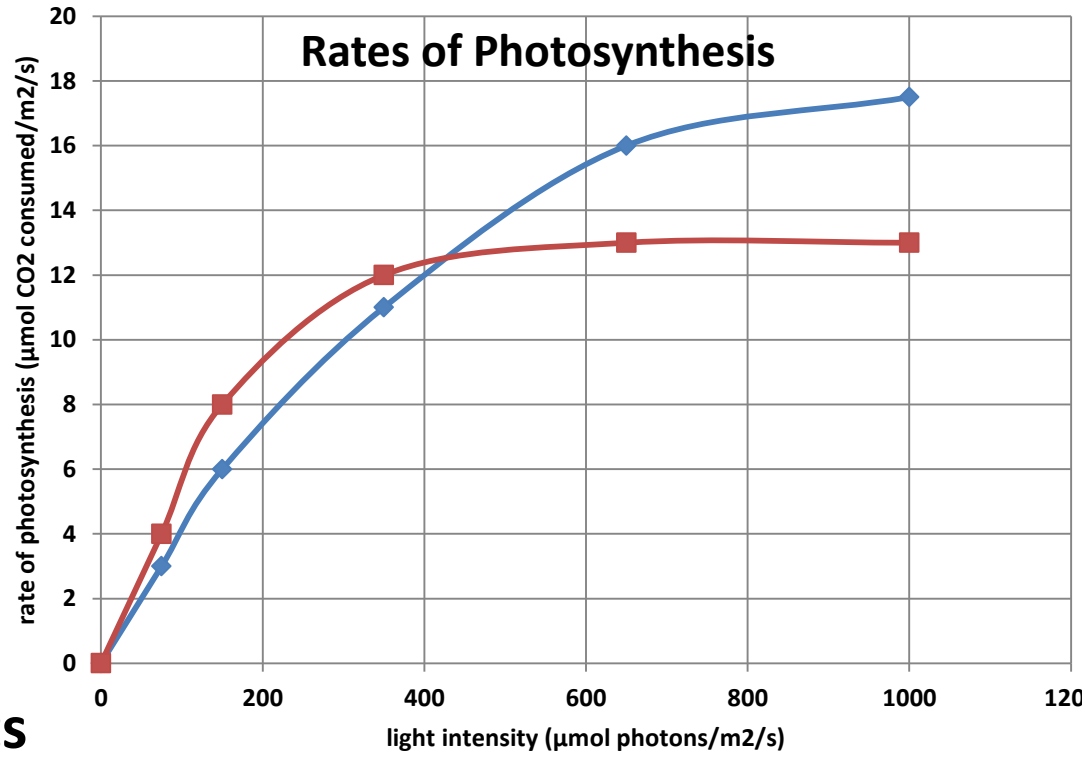
Warm Up

Analyze the graph comparing rates of photosynthesis between plants that grow in the shade and plants that grow in the sun. Then answer the questions.

◆ Sun plants
■ Shade plants



1. Which type of plant has a higher rate of photosynthesis when light intensity is below 200 µmol photons/m^2/s?

2. What would be the approximate rate of photosynthesis for sun plants in an environment like a desert where the average light intensity is 400 µmol photons/m^2/s?

3. Suppose you transplant a sun plant to a shaded forest floor that receives about 100 µmol photons/m^2/s. Do you think this plant will grow and thrive? Why or why not?