

Mini-Quiz 2

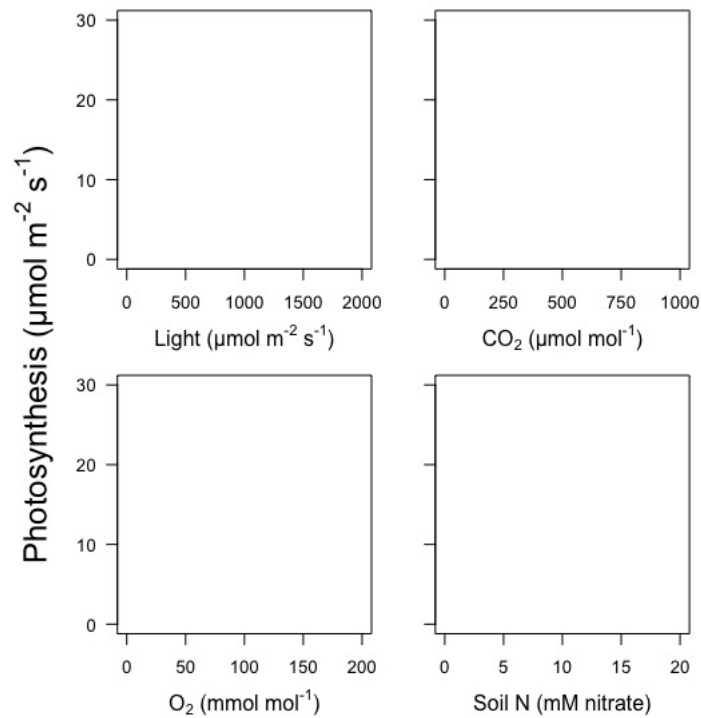
BIOL 4350/6350

Ecophysiology

1 Plant physiological processes often involve tradeoffs. Name one of these tradeoffs and provide an ecological context under which this tradeoff may be important.

2 Briefly explain how photosynthesis can be limited by light or CO₂.

- 3** Draw the expected response of photosynthesis to change in light, CO₂, O₂, and soil nitrogen.



- 4** Von Caemmerer and Farquhar performed their experiments using *Phaseolus vulgaris*, or common bean. This species is a leguminous (i.e., nitrogen fixing) species with C₃ photosynthesis. Do you think their experiments would have turned out differently using a different species? If so, how?