

Solutions

2.1 B Change only one factor when testing a limiting factor. At low light, extra light may increase rate. At a plateau, the changed factor is no longer the main limit in that range; the graph alone does not identify which other factor is limiting.

2.2 $\text{rate} = 9.0 / 3.0 = 3.0 \text{ cm}^3/\text{min}$.

2.3 False. Moving a lamp changes light and may also change temperature. A photosynthesis experiment needs control of heating, not just a ruler.

2.4 limiting factor. limiting factor means A factor whose shortage restricts rate.

3.1 Rates 2 and 3 cm^3/min , a 50% increase. A plateau suggests another limitation under those conditions, but does not identify it. Control temperature and carbon dioxide, allow equilibration and repeat.