

## **Essay Prompt: Photosynthesis**

The rate of photosynthesis may vary with changes that occur in environmental temperature, wavelength of light and light intensity. Using a photosynthetic organism of your choice, choose only **1** of the three variables (temperature, wavelength of light, or light intensity) and for this variable

- a. Design a scientific experiment to determine the effect of the variable on the rate of photosynthesis for the organism
- b. Explain how you would measure the rate of photosynthesis in your experiment
- c. Describe the results you would expect.
- d. Explain why you would expect these results.