

The Rainbow Connection

- I. Scuba Diver: Why do blood and red algae change color at different depths of water?

- II. Rainbows and Color
 - a. What is a rainbow?
 - b. How do we see rainbows?
 - i. Eyes
 - ii. Why do we see an object as a certain color?
 - iii. How does information go from the eye to the brain?
 - c. What is the value of color vision?
 - d. What is the value of being a certain color?

- III. Plants and Color
 - a. Can plants see color?
 - b. Can plants sense color?
 - c. What do plants do with light energy absorbed by pigments?
 - d. Why is photosynthesis important to plants?
 - e. What is this food and how is it used?
 - f. How could we measure whether this food is living?
 - g. What is photosynthesis?
 - i. Chloroplasts
 - ii. Photosystems
 - iii. Light dependent and light independent reactions
 - iv. Photosynthesis equation summaries
 - v. How is ATP made?

- IV. So what about our scuba diver?