

Photosynthesis & The Environment Questions

1. A plant completes the light reactions of photosynthesis and produces ATP and NADPH. However, the enzyme Rubisco is ineffective as it has been denatured. What do you suspect has happened to this plant? What makes you think this?
2. There are two plants growing in your backyard. Plant A grows really tall in the spring, and then shrivels during the summer. Plant B grows a little bit in the spring, and then shoots up in the summer. What type of plants do you suspect they are?
3. What do you suspect would happen to a plant if it was grown in an atmosphere with 90% O₂ levels?
4. You examine two leaves under a microscope. One has significantly more chlorophyll than the other. What do you suspect about these two plants?
5. You buy a plant for your mother in the spring. It is a “sun” plant, but your mother plants it in the shade. What do you suspect will happen and why?