

Plants can also sense light. They can detect what other plants are nearby through a part called phytochrome. Unlike human eyes which can truly see objects, phytochrome does not allow plants to see things, but it plays a role similar to "eyes" in plants.

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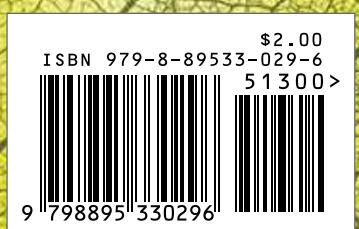
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General
Onologic
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Worksheet

How Do Plants Feel the Light?



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Check Problem 01

The ability to notice things outside our body is called a sense. Animals have excellent senses. Hawks and eagles have great eyesight. Dogs have an incredible sense of smell. Herbivores often have great hearing. Do you think you have a sense that is better than others? Can you explain why?



Check Problem 02

Animals have two eyes on their heads. They understand the world by analyzing the light that enters their eyes. Plants have photoreceptors called phytochromes, which are like the plant's eyes. Phytochromes are found all over the plant. Why do you think phytochromes are spread out this way?



Check Problem 03

Plants can also sense gravity. The stem grows upward, away from gravity, while the roots grow downward toward gravity. If a potted plant tips over, its stem and roots will change direction and keep growing. How do you think plants would grow in a place with no gravity?



Check Problem 04

We often joke and tease the people we like. If someone annoys us, we might frown. Even though plants do not have brains, they express feelings in their own way. What do you think plants do when insects or caterpillars bother them?



Check Problem 05

Plants do not have eyes like animals, but they can definitely sense light. Young seedlings, flowers and fruits can all detect light. Why do you think plants developed the ability to sense light?



Check Problem 06

Intelligence is the ability to adapt to the environment. It can also be seen as the ability to learn. Animals with high intelligence can quickly sense and respond to danger. From this perspective, we can see plants as having intelligence too. What intelligent behaviors do you think plants show?