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Student Exploration: Fast Plants® 1 – Growth and Genetics

Note to teachers and students: The Fast Plants® Gizmo was created in collaboration with the Wisconsin Fast Plants Program of the University of Wisconsin-Madison. These lessons can be used independently or in conjunction with classroom Fast Plants experiments.

Vocabulary: allele, dominant allele, Fast Plants, gene, genetics, genotype, heterozygous, homozygous, offspring, phenotype, pollen, pollinate, Punnett square, recessive allele, trait

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What do plants need to survive? Plants need space, air, and ideal temperatures.

2. How do plants reproduce? Plants reproduce through asexual for sexual reproduction. In asexual reproduction it's done through the roots stems and even the leaves on the plant itself, but through sexual reproduction there's a fusion between Bell and female gamuts in the specific plan.

Gizmo Warm-up

Several common vegetables, including Bok choy, napa cabbage, and turnips, are varieties of a plant called *Brassica rapa*. **Fast plants** are a rapid-cycling variety of *Brassica rapa* that was developed at the University of Wisconsin. These plants have short growing cycles and are ideal for classroom use. In the *Fast Plants® 1 – Growth and Genetics* Gizmo, you will learn about the life cycle and genetic traits of Fast Plants.

In the Gizmo, drag seed packet **A** to container 1 and seed packet **B** to container 2. Click **Play** () and then **Pause** () after about 10 simulated days.



1. A plants **traits** are its characteristics. Drag the magnifying glass over container 1. Describe the traits of these plants. The plants traits is the green and yellow pigment I'm not it's very tall and skinny.



Explore Learning Growing Plants 100 Answer

G Thomas



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