

A gardener noticed that some of the flowers on her pea plants were white. In previous years they were purple. How can you explain this?

sunlight  
age  
fertilizer  
breed  
mutation  
Pollen from another flower  
dominant/recessive  
amt of H<sub>2</sub>O

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Heredity- the passing of traits from parents to offspring

roll tongue  
face  
diabetes  
structure  
What are some examples?  
weight  
blood  
asthma  
clot  
bad  
Cancer  
Sickle-cell  
freckles  
cholesterol  
hair color  
eye color  
height  
skin color  
wavy, straight hair

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Gregor Mendel, an Austrian Monk, made the break through in the study of genetics.

- His parents were peasants: he knew a lot about agriculture
- An ordained priest
- Attended the University of Vienna to study science

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Europe

Mendel repeated a previous scientists experiments, but he took it to the next level analyzing the data.

Peas have three useful features

- Many traits that have two clearly different forms
- The mating is easily controlled
- It is small, grows quickly, produces many offspring.

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