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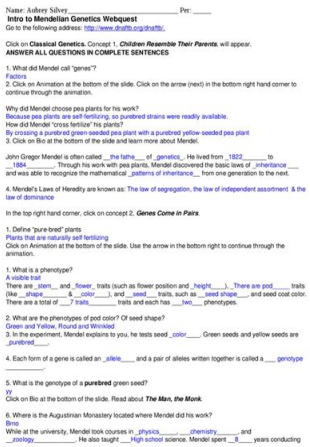

Name: Aubrey Silver_____ Per: _____
**Intro to Mendelian Genetics Webquest**
Go to the following address: http://www.dnaftb.org/dnaftb/.

Click on **Classical Genetics.** Concept 1, ***Children Resemble Their Parents***, will appear.
**ANSWER ALL QUESTIONS IN COMPLETE SENTENCES**

1. What did Mendel call "genes"?
Factors
2. Click on Animation at the bottom of the slide. Click on the arrow (next) in the bottom right hand corner to continue through the animation.

Why did Mendel choose pea plants for his work?
Because pea plants are self-fertilizing, so purebred strains were readily available.
How did Mendel "cross fertilize" his plants?
By crossing a purebred green seeded pea plant with a purebred yellow seeded pea plant
3. Click on Bio at the bottom of the slide and learn more about Mendel.

John Gregor Mendel is often called __the fathe___ of _genetics_. He lived from _1822_____ to __1884_____. Through his work with pea plants, Mendel discovered the basic laws of _inheritance___ and was able to recognize the mathematical _patterns of inheritance_ from one generation to the next.

4. Mendel's Laws of Heredity are known as: The law of segregation, the law of independent assortment & the law of dominance

In the top right hand corner, click on concept 2, ***Genes Come in Pairs***.

1. Define "pure-bred" plants
Plants that are naturally self fertilizing
Click on Animation at the bottom of the slide. Use the arrow in the bottom right to continue through the animation.

1. What is a phenotype?
A visible trait
There are _stem___ and _flower_ traits (such as flower position and _height____). There are pod_____ traits (like __shape_____ & __color____), and __seed___ traits, such as __seed shape___, and seed coat color. There are a total of ___7 traits_____ traits and each has ___two___ phenotypes.

2. What are the phenotypes of pod color? Of seed shape?
Green and Yellow. Round and Wrinkled
3. In the experiment, Mendel explains to you, he tests seed _color_____. Green seeds and yellow seeds are _purebred____.

4. Each form of a gene is called an _allele____ and a pair of alleles written together is called a ___ genotype _____.

5. What is the genotype of a **purebred** green seed?
yy
Click on Bio at the bottom of the slide. Read about ***The Man, the Monk***.

6. Where is the Augustinian Monastery located where Mendel did his work?
Brno
While at the university, Mendel took courses in __physics_____, ___chemistry_____ and __zoology_____. He also taught ___High school science. Mendel spent __8____ years conducting

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**Webquest On Genetics Answer Key**