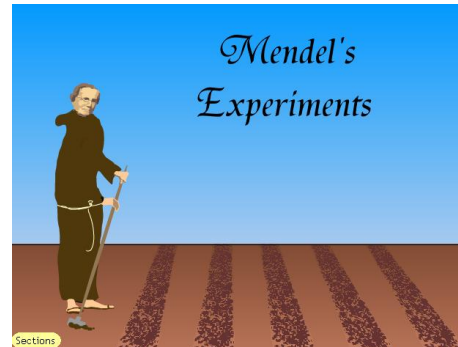


Name: _____ Date: _____ Hour: _____

Mendel's Peas Web Lab

Directions:

1. Go to:
<http://www2.edc.org/weblabs/Mendel/mendel.html>
2. You will explore five sections in this online web lab.
3. Answer the following questions as you work through the interactive.



Introduction:

Gregor Mendel is your guide for this Web Lab. He is considered the Father of Genetics

Who is Gregor Mendel? _____

Why did Gregor Mendel study pea plants and use peas for his experiments? List three reasons

1. _____

2. _____

3. _____

How many different traits (what do they look like) can you observe in the pea plants you planted? Fill in the table below with the different observable traits:

Observed Trait	Forms of the trait	
1.		
2.		
3.		
4.		
5.		
6.		
7.		

Plant & Cross

This section of the web lab allows you to explore the traits on which Mendel experimented, then cross pea plants to see what offspring they produce.

You were asked to create five crosses. In one of your cross record the results in the space below.

Cross #1		
Parent 1 Traits	Parent 2 Traits	Offspring Traits
		1.
		2.
		3.
		4.
		5.

Overall Results of the five crosses? Were the offspring similar and/or different to the parents?_____

Predicting Results

In this section, you will explore plant crosses and predict what the offspring will look like. Mendel will ask you to cross specific plants. Record each trait that he asks you to look at, and record the observed results for that trait in the offspring.

Complete the following table:

Parent 1 Pea Shape	Parent 2 Pea Shape	Predicted Offspring Pea Shape	Actual Offspring Pea Shape *Look at all 5 plants
<i>Round</i>	<i>Round</i>		# round _____ #wrinkled _____
<i>Wrinkled</i>	<i>Wrinkled</i>		# round _____ #wrinkled _____

What did you learn from these two crosses? _____

What is a dominant trait? _____

What is a recessive trait? _____

What pea shape (round vs. wrinkled) is dominant/recessive? How did you determine this?

***The next section is pedigree. STOP and do not continue through the pedigree! ☺**

References:

1. No Author. (n.d.). Mendel, First Geneticists. Retrieved from <http://www.myteacherpages.com/webpages/KFischer/files/mendel%20web%20lab%20worksheets.pdf>.
2. No Author. (n.d.). Mendel's Peas: A Web Lab Directory Interactive. Retrieved from <https://mrschrenkscience.wikispaces.com/file/view/Mendel+Peas+Web+Lab+Activity.doc>.