Name: \_\_\_\_\_\_ Period: \_\_\_\_\_

## Khan Academy Article: Mendel & His Peas

d an	swer the questions that	follow. The article is also linked up	nder Tuesday Feb 21 <sup>st</sup> daily agenda.
1.	Gregor Mendel was aliv	ve for the years	and often referred to as the
2.	What was a	at the Augustinian Abby of St	t. Thomas in what is now the
3.	Mendel started his dec	 ade-long research project in	to investigate
4.	He first began his resea		then switched toa
		Ultimately he settled on	as his primary model.
5.	Mendel studied the following seven different characters in his model organism (found down the page in a table!)		
5.	table!)	-	This model organism (found down the page in a
2.	table!)	-	
	table!) a	e	
	table!) a b	e f	
2.	table!) a b c	e f	
6.	table!) a b c d	e f g	
_	table!) a b c d	e f g	
	table!) a b c d Pea plants were a conv a	e f g	ance because of the following features:
_	table!) a b c d Pea plants were a conv a b	e	ance because of the following features:

patterns \_\_\_\_\_\_ (meaning in terms of specific numbers and ratios) to try to predict patterns.

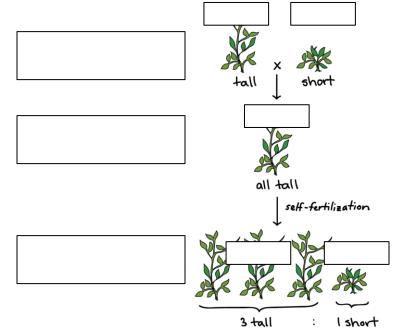
8. Peas were also useful as a model because of their system of \_\_\_\_\_\_ which gave Mendel

control over which plants bred to one another.

- 9. What does self-fertilize mean?
- 10. How did Mendel control which plants bred to one another?
- 11. Mendel's experimental setup:
  - a. He established \_\_\_\_\_\_ peas (aka pure-bred)
  - b. Then, he first crossed \_\_\_\_\_\_ parent to another. The plants used in this initial

cross are called the \_\_\_\_\_\_ generation, or parental generation.

- c. The offspring from the parental generation were called the \_\_\_\_\_ generation.
- 12. Complete the diagram below for Mendel's first experiment results:



13. By recording \_\_\_\_\_\_, calculating \_\_\_\_\_\_, and applying \_ Mendel was able to make discoveries that eluded or remained a mystery to many other scientists. With his models and calculations, he was able to predict patterns of inheritance with no knowledge of DNA as the genetic material!