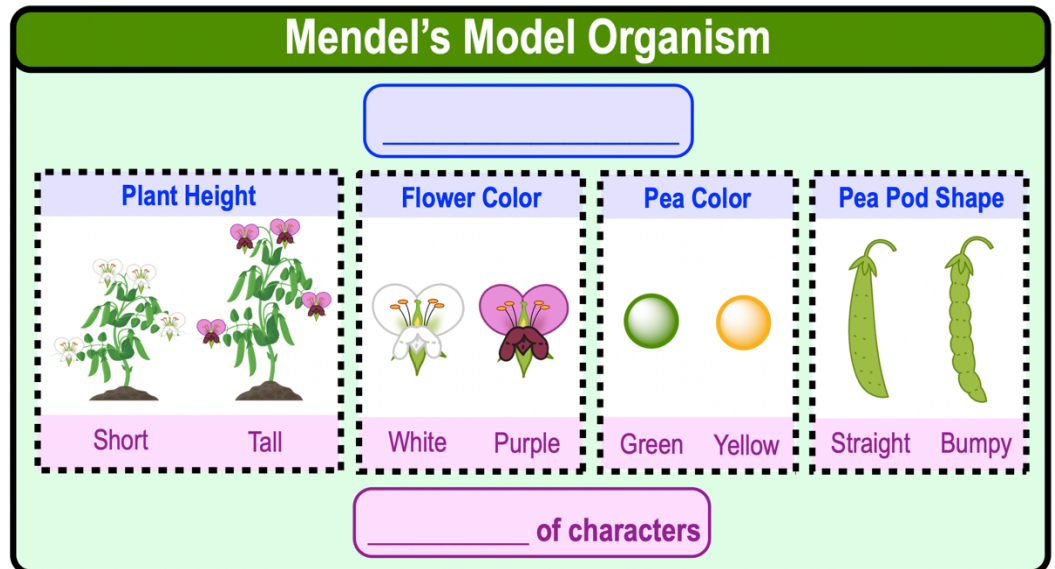
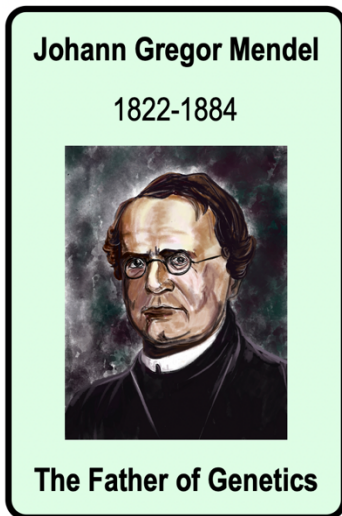


## CONCEPT: INTRODUCTION TO MENDEL'S EXPERIMENTS

- Gregor \_\_\_\_\_ discovered the fundamentals of \_\_\_\_\_ using \_\_\_\_\_ plants as a *model organism*.
  - **Model Organisms:** \_\_\_\_\_-human organisms studied to make discoveries & gain insight on other organisms.
- **Character:** an *inherited* feature that varies among individuals (ex. plant height, flower color, etc.).
  - \_\_\_\_\_: different *variants* of a specific *character* (ex. short/tall plants & white/purple flowers).

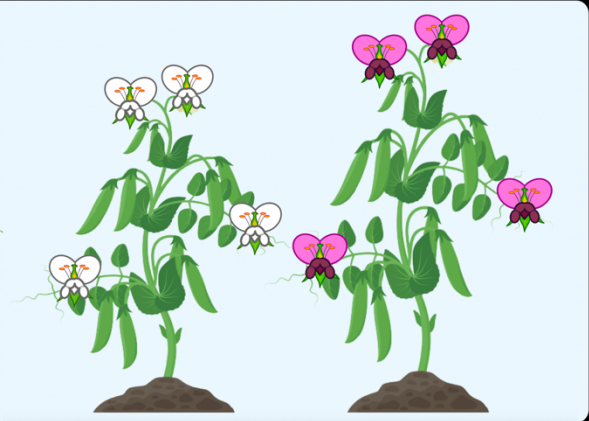
**EXAMPLE:** Mendel used Pea Plants to Study Genetics.



### Why Pea Plants?

- Mendel discovered that pea plants were the ideal model organism for studying *inheritance* for multiple reasons:

Why Pea Plants?	
①	Easy to _____.
②	_____ quickly.
③	Produce _____ offspring.
④	Have many _____ traits.
⑤	Easy to control pea plant _____.



**PRACTICE:** The pea plant (*Pisum sativum*) is a good choice for studying heredity because it:

- Develops slowly.
- Produces only a few offspring.
- Is easy to control which plants mate with each other.
- Has only a few traits that appear in two easily distinguishable forms.