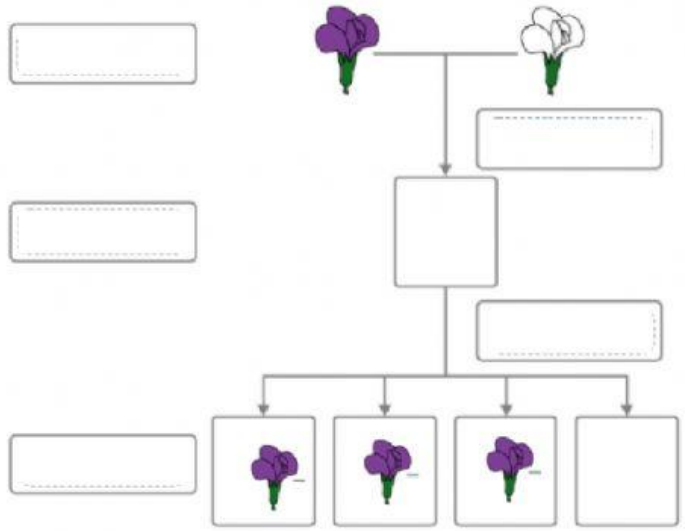
Complete the given figure.

Mendel's experiment with pea plant flower color.



F_1 generation | P generation | F_2 generation | Self-fertilization | Cross-fertilization

Fill in the blanks

1. In Mendel's experiments, the offspring that result from the cross-fertilization of two true-breeding plants are called [redacted]

2. Father of Modern Genetics is [redacted]

3. [redacted] are located on chromosomes, and they control inherited traits.

4. [redacted] is the study of Genes and how they are inherited.

Genetics Genes Louis Pasteur Gregor Mendel' F_1 generation

Fill the details of the following

Self fertilization	Cross-fertilization

1. Parents have both stamen and stigma found on different flower
2.Does not increases genetic diversity(no variation)
3. Produces offspring which can be like anyone of the parents.
4. These are not True-bred

1.Parents have both stamen and stigma on the same flower
2. increases genetic diversity(lots of variation)
3. Produces offspring same as parent
4. Called as True-bred