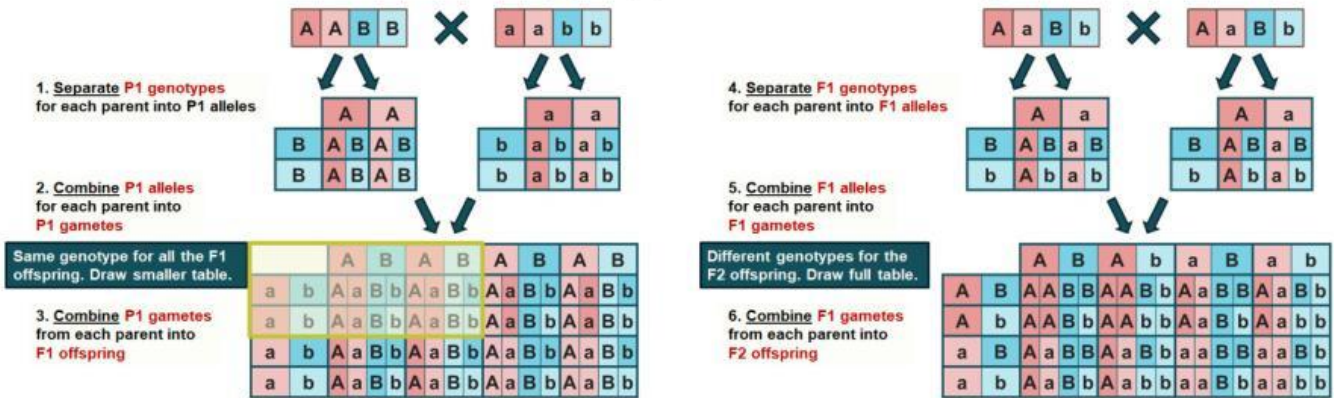


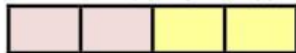


Mendel's Rule of segregation: 2. Dihybrid Cross



Activity 1-3. Cross Parent 1, tall with purple flowers (GGNN), with Parent 2, short with white flowers (ggnn) to determine the F₁ generation offspring. Then, cross two of the F₁ generation offspring to determine what the F₂ generation offspring will look like. Also select the correct genotypes and phenotypes.

1.1 Parent 1 (P): genotype

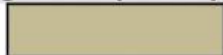


2.1 Trait 1 Gametes

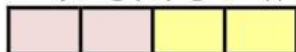
P gametes genotype



P gametes phenotype



4. Offspring (F₁): genotype



5. Trait 1 Gametes

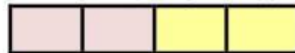
F₁ gametes: dominant alleles



F₁ gametes: recessive alleles



1.2 Parent 2 (P): genotype

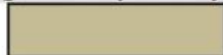


2.2 Trait 1 Gametes

P gametes genotype



P gametes phenotype



6. Offspring (F₂): Cross F₁ Parent 1 with Parent 2

F₂ genotypes and phenotype ratio

1. tall purple
2. tall white
3. short purple
4. short white