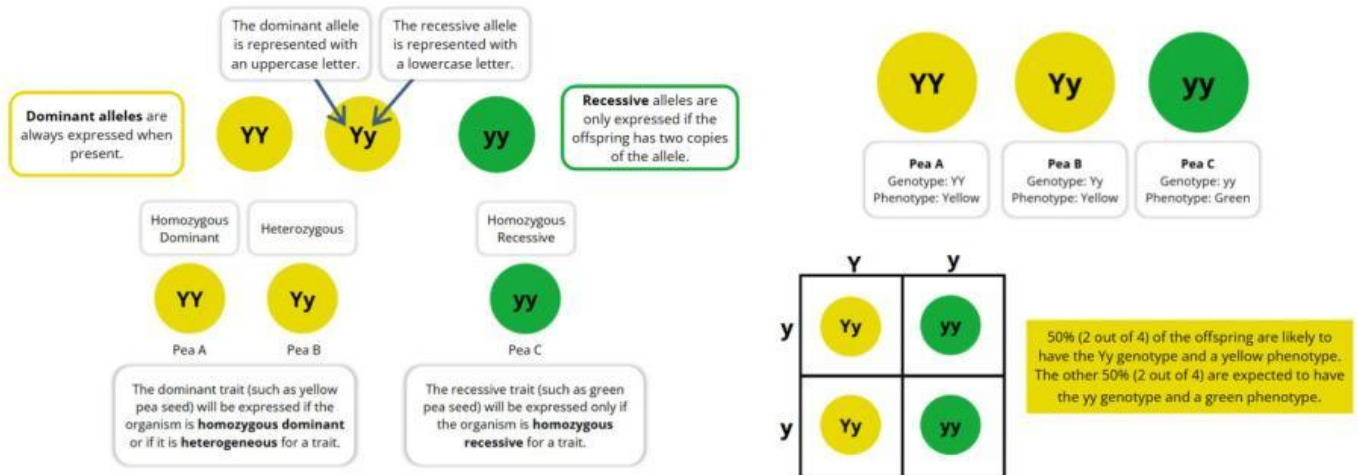




Mendel's Rule of segregation: 1. Monohybrid Cross



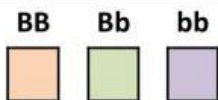
Activity 1. Cross Parent 1 with Parent 2 and select the correct genotype and phenotype ratios for the F₁ generation offspring. Allele 'B' is dominant for brown eyes and allele 'b' is recessive for blue eyes.

1. Parent 1: homozygous dominant

Parent 2: homozygous recessive

		Parent 1	
Parent 2	BB		
	bb		

F₁ genotype ratios:



F₁ phenotype ratios:

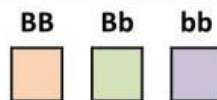


2. Parent 1: heterozygous dominant

Parent 2: heterozygous dominant

		Parent 1	
Parent 2	BB		
	bb		

F₁ genotype ratios:



F₁ phenotype ratios:

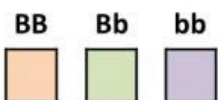


3. Parent 1: homozygous dominant

Parent 2: heterozygous dominant

		Parent 1	
Parent 2	BB		
	Bb		

F₁ genotype ratios:



F₁ phenotype ratios:

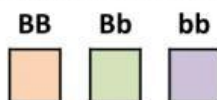


4. Parent 1: heterozygous dominant

Parent 2: homozygous recessive

		Parent 1	
Parent 2	BB		
	bb		

F₁ genotype ratios:



F₁ phenotype ratios:

