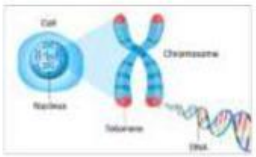
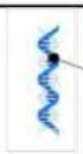
What is Inheritance?

Name: Date: Class:

1. *In this activity, you will discover the relationship between genes, genotype, phenotype and alleles. Match each step with its description.*

Steps	Description
1 	Rami has traits (for example a phenotype of brown eye color)
2 	The different versions of genes for eye color are called: Alleles
3	DNA determines the genotype
4	Inside each cell there are chromosomes made of (DNA)

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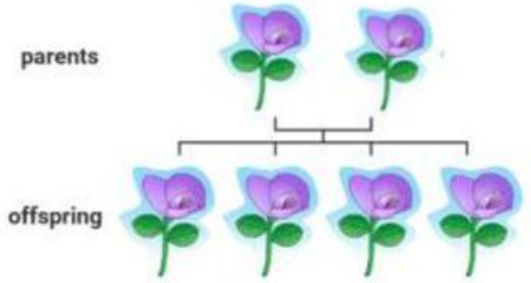
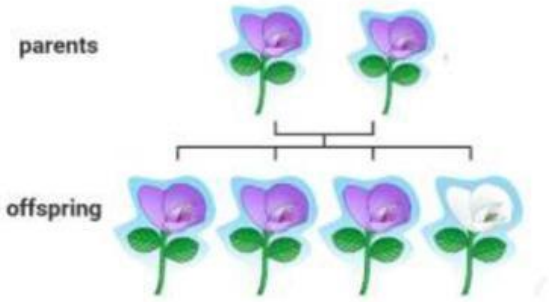
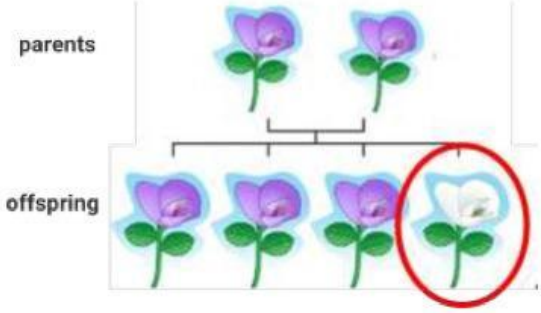
2. ***A farmer is reproducing flowers. In each case he used different types of purple flowers to produce offspring.***
Looking at the offspring, predict which parents are homozygous and which are heterozygous. Check the correct box in each case.

Case 1	Case 2
	
☐ Parents have the same alleles for color. They are homozygous ☐ Parents have different alleles for color. They are heterozygous	☐ Parents have the same alleles for color. They are homozygous ☐ Parents have different alleles for color. They are heterozygous

3. ***Look at the color trait of the parents and their offspring. Why does one of the offspring have a different color than both parents?***

	☐ the white flower had too much sunlight when growing up ☐ white color allele is recessive. The white flower got recessive white alleles from each parent ☐ white color allele is dominant. The white flower got recessive white alleles from each parent ☐ purple color allele is recessive. It blocks the white color allele

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