

Name: \_\_\_\_\_

### Unit 6 – Genetics

1. Match the vocabulary terms to their definitions:

- \_\_\_\_ Dominant allele
- \_\_\_\_ F1 generation
- \_\_\_\_ F2 generation
- \_\_\_\_ genotype
- \_\_\_\_ Gregor Mendel
- \_\_\_\_ heterozygous
- \_\_\_\_ homozygous
- \_\_\_\_ P generation
- \_\_\_\_ phenotype
- \_\_\_\_ Punnett square
- \_\_\_\_ recessive allele

- A. Organism with two different alleles for the same trait
- B. Genetic make up
- C. Parental generation
- D. Physical characteristics
- E. Organism that has two identical alleles for a trait
- F. Tool that can predict and compare genetic variation
- G. Allele that can be masked
- H. Austrian monk who worked with garden peas
- I. First offspring generation
- J. Allele that can mask other alleles
- K. Second offspring generation

2. Describe Mendel's idea of dominance.

3. Describe Mendel's law of segregation.

4. Describe Mendel's law of independent assortment.

5. If a dominant allele does not completely mask the recessive allele, there is a blend of the two traits, it is called \_\_\_\_\_ dominance.

6. When both alleles are expressed equally in the phenotype, such as in human blood type, it is called \_\_\_\_\_.

7. Sex-linked traits are found on the \_\_\_\_\_ chromosomes. **Males / females** inherit these disorders more frequently.

8. What is genetic engineering? Choose an issue and side; develop an argument supporting your opinion.

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