

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

### TOPIC 7: Genetics

Please use the Council Rock Video Podcast to guide you

1. Match the vocab terms to their definitions.

- |                        |   |
|------------------------|---|
| _____ Dominant allele  | A. Organism with two different alleles for the same trait |
| _____ F1 generation    | B. Genetic makeup   |
| _____ F2 generation    | C. Parental generation                                    |
| _____ Genotype         | D. Physical characteristics                               |
| _____ Gregor Mendel    | E. Organism that has two identical alleles for a trait    |
| _____ Heterozygous     | F. Tool that can predict and compare genetic variation    |
| _____ Homozygous       | G. Allele that can be masked                              |
| _____ P generation     | H. Priest who worked with garden peas                     |
| _____ Phenotype        | I. First offspring generation                             |
| _____ Punnett Square   | J. Allele that can mask other alleles                     |
| _____ Recessive allele | K. Second offspring generation                            |

2. A monohybrid cross looks at \_\_\_\_\_ trait, while a dihybrid cross looks at \_\_\_\_\_ traits at the same time.

3. What is Mendel's idea of

- Dominance?
- Segregation?
- Independent Assortment?

4. When the dominant allele does not completely mask the recessive allele, it is called \_\_\_\_\_ dominance.

- What are two examples?

5. When both alleles show up together (one is not really dominant over the other), it is called \_\_\_\_\_.

- What are two examples?

6. Sex-linked traits are those found on the \_\_\_\_\_ chromosome, and show up more in (circle one) **males / females**

7. What is genetic engineering?

- Pros?
- Cons?

