

Unit 8:

Genetics

Anchor 2

Module B

Assessment Anchors: Answer these questions in AT LEAST 2 Complete Sentences

MA.8.2.2.1 Describe and/or predict observed patterns of inheritance (i.e., dominant, recessive, codominance, incomplete dominance, sex-linked, polygenic, and multiple alleles).

Dominant- The trait that will show. **Recessive**- Must be copied for twice (less frequent). **Codominance** both show (like A+ blood type).

Incomplete dominance- when both red and white make pink. **Sex-linked** is related to gender. **Polygenic**- many traits. **Multiple alleles**- more than two alleles put make up the trait.

MA.8.2.2.2 Describe processes that can alter composition or number of chromosomes (i.e., crossing over, nondisjunction, duplication, translocation, deletion, insertion, and inversion).

Crossing over- When the ends of the chromosome switch.

Nondisjunction- Chromosomes don't separate.

Duplication- make an extra chromosome/segment.

Deletion- Lose a chromosome/segment.

Insertion- Add a section.

Inversion- Add a section.

Translocation- Pigs is missing (MIR) -> Lard.

MA.8.2.2.3 Describe how genetic mutations alter the DNA sequence and how or they may affect phenotype (e.g., silent, nonsense, frameshift).

Silent mutation- do not change phenotype.

Nonsense- Larders segment that doesn't make sense.

Frameshift- moves what is next to code.

MA.8.2.2.4 Explain how genetic engineering has impacted the fields of medicine, forensics, and agriculture (e.g., selective breeding, gene splicing, cloning, genetically modified organisms, gene therapy).

Genetics Module B Anchor 2 Answer Key

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Genetics Module B Anchor 2 Answer Key:

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