

DO NOW: Colorblindness NAME: _____ CLASS: _____

There are different ways that traits can be inherited by offspring.

_____ 1. Incomplete Dominance

A. Trait that is linked to the X chromosome. So males will have one copy and females will have two.

_____ 2. Epistasis

B. When alleles are not fully expressed in the next generation creating an intermediate phenotype.

_____ 3. Sex-Linked Traits

C. When the expression of one trait is turned on or off by another gene.

1. Colorblindness is a sex-linked trait. A mother with normal sight (X^cX^c) wants to have children with a father who is colorblind (X^cY). Will any of the children be color blind? Use a model to provide evidence for your answer.

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