

AP Biology 030 – Advanced Genetics

Video Review Sheet

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A. Introduction

1. What is mtDNA?
2. What are “linked genes”?

B. Independent Assortment:

1. What is independent assortment?....All of these genes assort independently, meaning they cannot
2. How many characteristics did Mendel study? _____ What is the interesting thing about these 7 characteristics?
3. Why does red hair and freckles tend to show up together?

C. Multiple Genes:

1. Height is caused by a number ...
2. Why are there so many possibilities (8) of sperm/egg produced by a medium height individual in the example he gave?
3. When a trait shows a bell shape curve, then that is an indicator that it is caused by:

D. Sex-Linkage:

1. Morgan crossed (worked with):
2. Create the Punnett square of Color Blindness to the right:
3. Why is it rare to find a girl that is color blind?

E. Nonnuclear Inheritance:

1. Besides the nucleus, where else can DNA be found?
2. Where does all of our mitochondrial DNA come from?
3. What causes “variety” in our mitochondrial DNA?