Maryland Science - Next Generation

Heredity: Inheritance and Variation of Traits: Grades 9-12

Adopted 2013

Heredity: Inheritance and Variation of Traits HS-LS3

HS-LS3-1. **Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.** HS-LS3-1

HS-LS3-2. **Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.** HS-LS3-2

HS-LS3-3. **Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.** HS-LS3-3