

# 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

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**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

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