

MAINE SCIENCE AND ENGINEERING STANDARDS

3-LS3 Heredity: Inheritance and Variation of Traits

3-LS3-1 Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.

Further Explanation: Patterns are the similarities and differences in traits shared between offspring and their parents, or among siblings. Emphasis is on organisms other than humans, such as lupins, apples or garden plants.

Analyzing and Interpreting Data, Inheritance of Traits, Variation of Traits, Patterns

3-LS3-2 Use evidence to support the explanation that traits can be influenced by the environment.

Further Explanation: Examples of the environment affecting a trait could include normally tall plants grown with insufficient water are stunted; and, a pet dog that is given too much food and little exercise may become overweight. In addition, hydrangea grown under higher acidic conditions will cause the petals to turn blue.

Constructing Explanations and Designing Solutions, Inheritance of Traits, Variation of Traits, Cause and Effect