

NGSS Correlations

Flying Butterfly AIR-480

Elementary

3-LS3-1

Students can use the Flying Butterfly to make observations and analyze and interpret data to provide evidence that animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.

4-PS3-4

Students can use the Flying Butterfly to design, test, and refine a device that converts energy from one form to another.

3-5-ETS1-3

Students can use the Flying Butterfly to plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Middle School

MS-PS3-5

Students can use the Flying Butterfly to construct, use, and present arguments or experiments to support the claim that when the motion energy of an object changes, energy is transferred to or from the object.

MS-ETS1-4

Students can use the Flying Butterfly to develop a model or experiment to generate data for iterative testing and modification of a proposed object, tool or process such that an optimal design can be achieved.

MS-LS4-4

Students can use the Flying Butterfly to run trials and construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.

High School

HS-PS3-4

Students can use the Flying Butterfly to design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.

HS-LS4-3

Students can use the Flying Butterfly to apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.

Suggested Science Idea(s)

3-LS3-1

MS-LS4-4

Students can creatively use the Flying Butterfly to run trials to produce evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.

HS-PS1-7

Twisting the rubber band in preparation for flight, presents a simple and dramatic demonstration of energy transfer in the Flying Butterfly. Students can add variables to their investigation for added learning.

HS-LS4-3

Students can creatively use the Flying Butterfly to run trials in an investigation about different heritable flying traits of an organism.

HS-LS3-3

Students can creatively use the Flying Butterfly to run trials in an investigation about different heritable flying traits of an organism and apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.

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