

Main Criteria: Forward Education
Secondary Criteria: Next Generation Science Standards (NGSS)
Subjects: Mathematics, Science, Technology Education
Grades: 3, 4, Key Stage 1, Key Stage 2

Forward Education

Protecting Pollinators with a Bee Counter

Next Generation Science Standards (NGSS)

Science

Grade 3 - Adopted: 2013

STRAND	NGSS.3-LS	LIFE SCIENCE
TITLE	3-LS4	Biological Evolution: Unity and Diversity
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION 3-LS4-4 Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.

STRAND	NGSS.3-5-ETS	ENGINEERING DESIGN
TITLE	3-5-ETS1	Engineering Design
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION 3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.

PERFORMANCE EXPECTATION 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

PERFORMANCE EXPECTATION 3-5-ETS1-3 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.

Next Generation Science Standards (NGSS)

Science

Grade 4 - Adopted: 2013

STRAND	NGSS.4-LS	LIFE SCIENCE
TITLE	4-LS1	From Molecules to Organisms: Structures and Processes
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION 4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

STRAND	NGSS.3-5-ETS	ENGINEERING DESIGN
TITLE	3-5-ETS1	Engineering Design
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION	3-5-ETS1-1	Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
PERFORMANCE EXPECTATION	3-5-ETS1-2	Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
PERFORMANCE EXPECTATION	3-5-ETS1-3	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.
