



COURSE GUIDE: POWER STANDARDS & LEARNING TARGETS

A Tradition of Pride

SCIENCE (2)

Students will evaluate how people impact the environment.

Students will design, test, and improve a tool that helps paleontologists solve a problem.

Students will explore the life cycle of the butterfly

Students will make and record observations.

LEARNING TARGET DESCRIPTIONS

- ☐ Level 3 learning targets **demonstrate understanding of foundational and complex knowledge.**
- ☐ Level 2 learning targets **demonstrate understanding of foundational knowledge.**

POWER STANDARD:	LEARNING TARGET: STUDENTS WILL ...
Students will evaluate how people impact the environment.	Level 3
	☐ List ways that they can affect the environment in a positive way
	☐ Explain how the 3Rs (reduce, reuse, recycle) benefit the environment
	☐ Identify how my community has been impacted over time and create solutions to protect the land, water, and air for the future
	☐ Write a persuasive piece that emphasizes the positive effect people can have on the environment
	Level 2
	☐ List natural resources I use everyday
	☐ Compare/contrast things that are helpful and harmful to the environment
Students will design, test, and improve a tool that helps scientists solve a problem.	☐ Define the 3Rs (reduce, reuse, recycle) and give examples
	Level 3
	☐ Use materials to design a device that solves a specific problem.
	☐ Construct a 3D model to represent a large object.
	☐ Test and compare prototypes and use testing results to improve the design.



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	☐ Explain how scientists use graphs and measurement to represent data.
	Level 2
	☐ Identify how the shape of an object can determine its function.
	☐ Describe how scientific tools have improved over time and made new discoveries possible.
	☐ Compare and contrast carnivores and herbivores based on fossil evidence.
POWER STANDARD	LEARNING TARGET: STUDENTS WILL ...
Students will explore the life cycle of the butterfly.	Level 3
	☐ Observe and record the different stages of a butterfly's life cycle
	☐ Identify the body parts of a caterpillar and Painted Lady butterfly
	Level 2
	☐ Observe that a caterpillar forms a chrysalis, and a butterfly emerges from the chrysalis
	☐ Learn that caterpillars need food, air, and space to live and grow
	☐ Learn that a butterfly needs food to live, but it does not grow after emerging
	☐ Learn that a butterfly lays eggs, hatch into larvae
POWER STANDARD	LEARNING TARGET: STUDENTS WILL ...
Students will design, test, and improve a zoo habitat for emperor penguins	Level 3
	☐
	☐
	Level 2
	☐
	☐
	☐



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	☐
POWER STANDARD:	LEARNING TARGET: STUDENTS WILL ...
Students will make and record observations.	Level 3
	☐ Plan and conduct investigations to provide written evidence
	☐ Draw conclusions from observations
	☐ Use correct scientific terminology
	☐ Ask questions based on observations to find more information
	☐ Make observations to collect data to use to make comparisons
	Level 2
	☐ Form and record observations
	☐ Make predictions about an experiment
	☐ Draw a model of the experiment or components of
	☐ Compare predictions to the results of the experiment

Note:

- The number(s) behind the course title indicate the grade(s) the course is offered.