

# 3rd Grade



## **Forces and Interactions**

- 3-PS2-1** Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.
- 3-PS2-2** Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.
- 3-PS2-3** Ask questions to determine cause and effect relationships of electrical or magnetic interactions between two objects not in contact with each other.
- 3-PS2-4** Define a simple design problem that can be solved by applying scientific ideas about magnets.

## **Interdependent Relationships in Ecosystems**

- 3-LS2-1** Construct an argument that some animals form groups that help members survive.
- 3-LS4-1** Analyze and interpret data from fossils to provide evidence of the organisms and environments in which they lived long ago.
- 3-LS4-3** Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.
- 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.

## **Inheritance and Variation of Traits: Life Cycles and Traits**

- 3-LS1-1** Develop models to describe that organisms that have unique and diverse life cycles but all have in common birth, growth, and reproduction, and death.
- 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.
- 3-LS3-2** Use evidence to support the explanation that traits can be influenced by the environment.
- 3-LS4-2** Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.

## **Weather and Climate**

- 3-ESS2-1** Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.
- 3-ESS2-2** Obtain and combine information to describe climates in different regions of the world.
- 3-ESS3-1** Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.

## **Engineering Design**

- 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 costs.
- 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.
- 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.

\*Refer to evidence statements in [www.nextscience.org](http://www.nextscience.org)

Adapted from Achieve. (2016, January 28), from <http://www.nextgenscience.org>