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 tow 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-LS4-2 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-LS4-3 Make a claim about the merit of a solution to the problem that reduces the impacts of a weather-related hazard.

Inheritance and Variation of Traits: Life Cycles and Traits
3-LS1-1 Develop models to describe that organisms that 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-ETS1-1 Define a simple design problem reflecting a need or a want that includes specific criteria for success and constraints on materials, time or costs.
3-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-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

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