



## NOSD Third Grade Science Standards

### **Life Science- Animal habitats and Traits:**

- Construct an argument that some animals form groups that help members survive.
- 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.
- Use evidence to support the explanation that traits can be influenced by the environment.
- 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.
- 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.
- 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.

### **Physical Science-Force & Energy:**

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

### **Earth Science- Earth Systems (Weather):**

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

### **Earth Science- Earth's Systems:**

- Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land
- Draw a representation of the shapes and kinds of land and bodies of water in an area
- Identify where water is found on Earth and that it can be solid or liquid

### **Earth Science- Engineering Design:**

- Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool
- Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps its function as needed to solve a given problem

- Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs