Grade 3 Science Curriculum Map

Unit 1: Forces and Interactions Unit 2: Weather and Climate ESS2.D: Weather and Climate PS2.A: Forces and Motion Each force acts on one particular object and has both Scientists record patterns of the weather across different strength and a direction. An object at rest typically has times and areas so that they can make predictions about what kind of weather might happen next. (3-ESS2-1) multiple forces acting on it, but they add to give zero net Climate describes a range of an area's typical weather force on the object. Forces that do not sum to zero can cause changes in the object's speed or direction of motion. conditions and the extent to which those conditions vary over (Boundary: Qualitative and conceptual, but not quantitative years. (3-ESS2-2) addition of forces are used at this level. (3-PS2-1) The patterns of an object's motion in various situations can be observed and measured; when that past motion exhibits a regular pattern, future motion can be predicted from it. (Boundary: Technical terms, such as magnitude, velocity, momentum, and vector quantity, are not introduced at this level, but the concept that some quantities need both size and direction to be described is developed.) (3-PS2-2) PS2.B: Types of Interactions Objects in contact exert forces on each other. (3-PS2-1) Electric, and magnetic forces between a pair of objects do not require that the objects be in contact. The sizes of the forces in each situation depend on the properties of the objects and their distances apart and, for forces between two magnets, on their orientation relative to each other. (3-PS2-3),(3-PS2-4) **Unit 3: Natural Hazards Unit 4: Ecosystems: Group Behavior** ESS3.B: Natural Hazards LS2.D: Social Interactions and Group Behavior A variety of natural hazards result from natural processes. Being part of a group helps animals obtain food, defend Humans cannot eliminate natural hazards but can take steps themselves, and cope with changes. Groups may serve to reduce their impacts. (3-ESS3-1) (Note: This Disciplinary different functions and vary dramatically in size (Note: Moved Core Idea is also addressed by 4-ESS3-2.) from K-2). (3-LS2-1) Unit 6: Growth and Development of **Unit 5: Biological Evolution Organisms** LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS1.B: Growth and Development of Organisms When the environment changes in ways that affect a place's Reproduction is essential to the continued existence of every physical characteristics, temperature, or availability of kind of organism. Plants and animals have unique and diverse life cycles. (3-LS1-1) resources, some organisms survive and reproduce, others move to new locations, yet others move into the transformed environment, and some die. (secondary to 3-LS4.A: Evidence of Common Ancestry and Diversity Some kinds of plants and animals that once lived on Earth are no longer found anywhere. (Note: moved from K-2) (3-Fossils provide evidence about the types of organisms that lived long ago and also about the nature of their environments. (3-LS4-1) LS4.B: Natural Selection Sometimes the differences in characteristics between individuals of the same species provide advantages in surviving, finding mates, and reproducing. (3-LS4-2) LS4.C: Adaptation For any particular environment, some kinds of organisms survive well, some survive less well, and some cannot survive at all. (3-LS4-3) LS4.D: Biodiversity and Humans Populations live in a variety of habitats, and change in those habitats affects the organisms living there. (3-LS4-4) **Unit 7: Inheritance of Traits**

LS3.A: Inheritance of Traits

- Many characteristics of organisms are inherited from their parents. (3-LS3-1)
- Other characteristics result from individuals' interactions with the environment, which can range from diet to learning. Many characteristics involve both inheritance and environment. (3-LS3-2)

LS3.B: Variation of Traits

- Different organisms vary in how they look and function because they have different inherited information. (3-LS3-1)
 The environment also affects the traits that an organism