Grade 2 Science Curriculum

Unit 1: Matter Unit 2: Role of Water on Earth ESS2.C: The Roles of Water in Earth's Surface PS1.A: Structure and Properties of Matter **Processes** Different kinds of matter exist and many of them can be Water is found in the ocean, rivers, lakes, and ponds. either solid or liquid, depending on temperature. Matter can Water exists as solid ice and in liquid form. (2-ESS2-3) be described and classified by its observable properties. (2-ESS2.B: Plate Tectonics and Large-Scale System PS1-1) Different properties are suited to different purposes. (2-Maps show where things are located. One can map the PS1-2),(2-PS1-3) shapes and kinds of land and water in any area. (2-ESS2-A great variety of objects can be built up from a small set of pieces. (2-PS1-3) **PS1.B:** Chemical Reactions Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible, and sometimes they are not. (2-PS1-4) Unit 3: Wind, Water & Land **Unit 4: Changing of Earth** ESS2.A: Earth Materials and Systems ESS1.C: The History of Planet Earth Wind and water can change the shape of the land. (2-Some events happen very quickly; others occur very slowly, over a time period much longer than one can observe. (2-ESS2-1) ESS1-1) ETS1.C: Optimizing the Design Solution Because there is always more than one possible solution to a problem, it is useful to compare and test designs. (secondary to 2-ESS2-1) **Unit 5: Biodiversity & Humans Unit 6: Plants** LS4.D: Biodiversity and Humans LS2.A: Interdependent Relationships in Ecosystems There are many different kinds of living things in any area, Plants depend on water and light to grow. (2-LS2-1) Plants depend on animals for pollination or to move their and they exist in different places on land and in water. (2seeds around. (2-LS2-2) ETS1.B: Developing Possible Solutions Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other (secondary to 2-LS2-2) **Unit 7: Matter Unit 8: Ecosystem Dynamics PS1.A: Structure and Properties of Matter** LS2.A: Interdependent Relationships in Ecosystems Different kinds of matter exist (e.g., wood, metal, water) and many of them can be either solid or liquid, depending on The food of almost any kind of animal can be traced back to plants. Organisms are related in food webs in which some temperature. (K-PS1-a),(K-PS1-b) animals eat plants for food and other animals eat the animals Matter can be described and classified by its observable that eat plants. Some organisms, such as fungi and bacteria, properties (e.g., visual, aural, textural), by its uses, and by break down dead organisms (both plants or plants parts and whether it occurs naturally or is manufactured. (K-PS1-a),(Kanimals) and therefore operate as "decomposers." PS1-c) Decomposition eventually restores (recycles) some materials • Different properties are suited to different purposes. (2- PS1back to the soil. Organisms can survive only in environments in which their particular needs are met. A healthy ecosystem · A great variety of objects can be built up from a small set of is one in which multiple species of different types are each pieces (e.g., blocks, construction sets). (2-PS1-b) able to meet their needs in a relatively stable web of life. Objects or samples of a substance can be weighed, and their Newly introduced species can damage the balance of an size can be described and measured. (Boundary: volume is ecosystem. (5-LS2-1) introduced only for liquid measure.) (2-PS1-c)