Vermont Early Learning: Science

Infants

Physical Sciences	**Children construct concepts of the properties of matter, sound, motion and energy through inquiry, exploration and investigations.** 1 Attend to and demonstrate interest in objects in their environment, using all of their senses to explore 2 Move and handle objects to learn more about them (e.g., drop food from high chair to see what happens) 3 Explore ways to make different sounds with their bodies and objects (e.g., vocal sounds, clapping) 4 Attend to objects that emit light 5 Looks for an object that is hidden out of sight
Life Sciences	**Children construct concepts about the characteristics of living organisms, their biology and ecosystems through exploration and investigations.** 1 Demonstrate interest in people, plants and animals 2 Use senses to explore and get information about the natural world
Earth and Space Sciences	**Children construct concepts about Earth's systems, the impacts of human activity on these systems, and Earth's place in the universe through observations, exploration, and investigations.** 1 Explore water, soil, sand and rocks with adult guidance and support
Engineering Design	**Children design, experiment, construct, alter, and problem solve to modify the natural world and meet their needs and wants.** 1 Demonstrate interest in people and objects in the environment 2 Experiment with body movement 3 Track movement with eyes 4 Use all senses to explore the properties of objects in environment to gain knowledge 5 Use body to account for size when interacting with objects (e.g., opens arms wide to grasp a large ball) 6 Carrying objects, putting into containers and dumping