Tennessee Science

Kindergarten

Matter and Its Interactions K.PS1	1	**Plan and conduct an investigation using patterns to classify different kinds of materials by their observable properties (i.e. absorbency, color, texture, hardness, and flexibility), by their uses, and by whether they occur naturally or are manufactured.** K.PS1.1
	2	**Conduct investigations to understand that matter can exist in different states (i.e. solid and liquid) and has properties that can be observed and tested.** K.PS1.2
	3	**Construct an evidence-based account of how an object made of a small set of pieces (e.g. blocks, snap cubes) can be disassembled and made into a new object.** K.PS1.3
Waves and Their Applications in Technologies for Information Transfer K.PS4	1	**Record data from an investigation using senses to detect light, sound, and vibrations and communicate observations.** K.PS4.1
From Molecules to Organisms: Structures and Processes K.LS1	1	**Use information from observations to identify the differences between plants and animals and how they live and grow.** K.LS1.1
	2	**Recognize differences between living organisms and non-living materials and sort them into groups by observable physical attributes.** K.LS1.2
	3	**Explain how animals, including humans, use their five senses to interact with the environment.** K.LS1.3
Heredity: Inheritance and Variation of Traits K.LS3	1	**Collect and analyze observational data to show that young living things are like, but not exactly like, their parents.** K.LS3.1
Earth's Systems K.ESS2	1	**Make observations to gather weather data (i.e. precipitation, wind, temperature, cloud cover) using tools (e.g. thermometer, rain gauge).** K.ESS2.1
	2	**Use simple graphs and pictorial weather symbols to describe weather patterns that occur over time (i.e. hourly, daily).** K.ESS2.2
	3	**Develop and use models to predict weather and identify patterns in spring, summer, autumn, and winter.** K.ESS2.3

Earth and Human Activity K.ESS3	1	**Use a model to represent the way the environment meets the basic needs (shelter, food, water) of living things (including humans) and the places they live.** K.ESS3.1
	2	**Explain the purpose of weather forecasting to prepare for, and respond to, severe weather in Tennessee.** K.ESS3.2
	3	**Communicate solutions that will reduce the impact from humans on land, water, air, and other living things in the local environment.** K.ESS3.3
Engineering Design K.ETS1	1	**Apply an engineering design approach to identify and solve practical problems.** K.ETS1.1
	2	**Use drawings and labels to communicate ideas and designs accurately.** K.ETS1.2
	3	**Ask and answer questions about the scientific world and gather information using the senses.** K.ETS1.3
Links Among Engineering, Technology, Science, and Society K.ETS2	1	**Use appropriate tools (e.g. magnifying glass, rain gauge, basic balance scale) to make observations and answer testable scientific questions.** K.ETS2.1