North Carolina Science

Grade 2

Matter and its Interactions

1 **Understand properties of solids and liquids and the changes they undergo.** PS.2.1

1 Carry out investigations to illustrate examples of matter that can change from a solid to a liquid and from a liquid to a solid by heating and cooling. PS.2.1.1

2 Analyze and interpret data to compare the amount (volume and weight) of water in a container before and after freezing. PS.2.1.2

3 Analyze and interpret data to compare the amount (volume and weight) of water left in an open container over time to the water left in a closed container. PS.2.1.3

Waves and Their Applications in Technologies for Information Transfer

2 **Understand the relationship between sound and vibrating objects.** PS.2.2

1 Carry out investigations to illustrate how sound is produced by vibrating objects and columns of air. PS.2.2.1

2 Use models to summarize the relationship between sound and how sounds are produced and detected by parts of the body that vibrate. PS.2.2.2

From Molecules to Organisms- Structures and Processes

1 **Understand animal life cycles.** LS.2.1

1 Use models to summarize the life cycle of animals including: birth, developing into an adult, reproducing, aging and death. LS.2.1.1

2 Obtain, evaluate and communicate information to compare life cycles of different animals. LS.2.1.2

Heredity- Inheritance and Variation of Traits

2 **Understand that organisms differ from or are similar to their parents and other offspring based on characteristics of the organism.** LS.2.2

1 Obtain, evaluate, and communicate information to summarize ways in which animals closely resemble their parents and ways they are different. LS.2.2.1

2 Analyze and interpret data to illustrate variations among offspring of the same parents. LS.2.2.2

Earth's Systems

1 **Understand patterns of weather and factors that affect weather.** ESS2.1

1 Obtain, evaluate, and communicate information to summarize how energy from the sun serves as a source of light and warms the land, air, and water. ESS2.1.1

2 Use mathematics and computational thinking to summarize weather conditions (temperature, wind direction, wind speed, precipitation). ESS2.1.2

Carry out investigations to collect data and compare weather patterns that occur over time and relate observable patterns to time of day and time of year. ESS2.1.3

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4 Obtain, evaluate and communicate information to recognize the tools scientists use for observing, recording, and predicting weather changes from day to day and during the season. ESS2.1.4