Project WET Guide 2.0 Correlations to the 2012 North Carolina Essential Standards

5th Grade

Science

5.P.2: Understand the interactions of matter and energy and the changes that occur.

5.P.2.1—Explain how the sun’s energy impacts the processes of the water cycle (including evaporation, transpiration, condensation, precipitation).

Activities: The Incredible Journey—pg. 155

5.P.3: Explain how the properties of some materials change as a result of heating and cooling

5.P.3.2—Explain how heating and cooling affect some materials and how this relates to their purpose and practical applications.

Activities: Molecules in Motion—pg. 33; Water Inspirations—pg. 535

5.E.1: Understand weather patterns and phenomena, making connections to the weather in a particular place and time.

5.E.1.1—Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.

Activities: Blue River—pg. 135; The Thunderstorm—pg. 209; Snow and Tell—pg. 387

5.L.1: Understand how structures and systems of organisms (to include the human body) perform functions necessary for life.

5.L.1.2—Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, cardiovascular) as it relates to the functions necessary for life.

Activities: Aqua Bodies—pg. 45; Aqua notes—pg. 51

5.L.2: Understand the interdependence of plants and animals with their ecosystem.
**Health Education**

5.NPA.2: Understand the importance of consuming a variety of nutrient dense foods and beverages in moderation.

5.NPA.2.2—Infer the benefits of limiting the consumption of foods and beverages high in fat and added sugar.

Activities: On Track with Hydration—pg. 95

**Social Studies**

5.G.1: Understand how human activity has and continues to shape the United States.

5.G.1.1—Explain the impact of the physical environment on early settlements in the New World.

Activities: Water Crossings—pg. 487

5.G.1.2—Explain the positive and negative effects of human activity on the physical environment of the United States, past and present.

Activities: Discover the Waters of Our National Parks—pg. 493; A-maze-ing Water—pg. 231; Humpty Dumpty—pg. 335; Invaders!—pg. 263; Rainy Day Hike—pg. 169; Just Passing Through—pg. 163

5.G.1.3—Exemplify how technological advances (communication, transportation and agriculture) have allowed people to overcome geographic limitations.

Activities: Water Crossings—pg. 487