TEKS covered in Water Quality

Science:

5.1 A: demonstrate safe practices and the use of safety equipment as described in the Texas Safety Standards during classroom and outdoor investigations

5.1 B: make informed choices in the conservation, disposal, and recycling of materials.

5.2 A: describe, plan, and implement simple experimental investigations testing one variable;

5.2 B: ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology;

5.2 C: collect information by detailed observations and accurate measuring;

5.2 D: analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence;

5.2 E: demonstrate that repeated investigations may increase the reliability of results;

5.2 F: communicate valid conclusions in [both] written [and verbal] form[s];

5.4 A: collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, including clocks and stopwatches; and materials to support observations of habitats or organisms such as terrariums and aquariums

5.4 B: use safety equipment, including safety goggles and gloves.

5.5 B: identify the boiling and freezing/melting points of water on the Celsius scale

5.5 D: identify changes that can occur in the physical properties of the ingredients of solutions such as dissolving salt in water or adding lemon juice to water.

Math:

5.1 A: use place value to read, write, compare, and order whole numbers through 999,999,999,999;

5.3 A: use addition and subtraction to solve problems involving whole numbers and decimals

5.3 B: use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology)

5.3 C: use division to solve problems involving whole numbers (no more than two-digit divisors and three-digit dividends without technology), including interpreting the remainder within a given context;

5.10 A: perform simple conversions within the same measurement system (SI (metric) or customary);

5.10 C: select and use appropriate units and formulas to measure length, perimeter, area, and volume.

5.15 A: explain and record observations using objects, words, pictures, numbers, and technology;