

TEKS ALIGNMENT: CIVIL ENGINEERING (DESIGNING BRIDGES)

GRADE 1	GRADE 2	GRADE 3	GRADE 4	GRADE 5
<p>112.12(B)(1)(C) Identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals.</p>	<p>112.13(B)(3)(A-C) Identify and explain a problem in his/her own words and propose a task and solution for the problem; make predictions based on observable patterns; and identify what a scientist is and explore what different scientists do.</p>	<p>112.14(B)(2)(A) Plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world</p>	<p>112.15(B)(2)(A) Plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions;</p>	<p>112.16(B)(1)(B) Make informed choices in the conservation, disposal, and recycling of materials.</p>
<p>112.12(B)(3)(A-C) Identify and explain a problem...and propose a solution in his/her own words; make predictions based on observable patterns; describe what scientists do.</p>	<p>112.13(B)(5)(C) Demonstrate that things can be done to materials to change their physical properties such as cutting, folding, sanding, and melting.</p>	<p>112.14(B)(6)(B) Demonstrate and observe how position and motion can be changed by pushing and pulling objects to show work being done such as swings, balls, pulleys, and wagons</p>	<p>112.15(B)(6)(d) Design an experiment to test the effect of force on an object such as a push or a pull, gravity, friction, or magnetism.</p>	<p>112.16(B)(6)(D) Design an experiment that tests the effect of force on an object.</p>
<p>112.12(B)(4)(A) Collect, Record, and Compare information using tools including cups, notebooks, non-standard measuring items such as paper clips and clothespins.</p>	<p>112.13(B)(5)(D) Combine materials that when put together can do things that they cannot do by themselves such as building a tower or a bridge and justify the selection of those materials based on their physical properties.</p>	<p>112.14(B)(7)(D) Explore the characteristics of natural resources that make them useful in products and materials such as clothing and furniture and how resources may be conserved.</p>	<p>112.15(B)(5)(A) Measure, compare, and contrast physical properties of matter, including size, mass, volume, states (solid, liquid, gas), temperature, magnetism, and the ability to sink or float;</p>	<p>112.16(B)(2)(A) Describe, plan, and implement simple experimental investigations testing one variable.</p>
<p>112.12(B)(5)(A) Classify objects by observable properties of the materials from which they are made such as larger and smaller, heavier and lighter, shape, color, and texture.</p>	<p>112.13(B)(6)(C) Trace the changes in the position of an object over time such as a cup rolling on the floor and a car rolling down a ramp; and compare patterns of movement of objects such as sliding, rolling, and spinning.</p>	<p>112.14(B)(5)(A) Measure, test, and record physical properties of matter, including temperature, mass, magnetism, and the ability to sink or float.</p>	<p>112.15(B)(1)(B) Make informed choices in the use and conservation of natural resources and reusing and recycling of materials such as paper, aluminum, glass, cans, and plastic.</p>	<p>112.16(A)(3)(D) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.</p>
<p>112.12(B)(6)(C) Describe the change in the location of an object such as closer to, nearer to, and farther from.</p>	<p>112.13(B)(2)(C) Collect data from observations using simple equipment such as rulers, notebooks, primary balances, and non-standard measurement tools.</p>	<p>112.14(B)(3)(D) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.</p>	<p>112.14(B)(3)(D) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.</p>	<p>112.16(B)(2)(B) Ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology.</p>