Grades 3-5 TEKS - Science:

• 112.14. Grade 3(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.

• 112.14. Grade 3(b) - 2 (B) collect data by observing and measuring using the metric system and recognize differences between observed and measured data.

• 112.14. Grade 3(b) - 2 (F) communicate valid conclusions supported by data in writing, by drawing pictures, and through verbal discussion.

• 112.14. Grade 3(b) – 3 (D) connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.

• 112.15. Grade 4(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.

• 112.15. Grade 4(b) - 2 (B) collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.

• 112.15. Grade 4(b) - 2 (F) communicate valid conclusions supported by data in writing, by drawing pictures, and through verbal discussion.

• 112.15. Grade 4(b) - 3 (D) connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.

• 112.15. Grade 4(b) – 4 (A) collect, record, and analyze information using tools, including microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, wind vanes, rain gauges, pan balances, graduated cylinders, beakers, spring scales, hot plates, meter sticks, compasses, magnets, collecting nets, notebooks, sound recorders, and Sun, Earth, and Moon system models; timing devices, including clocks and stopwatches; and materials to support observation of habitats of organisms such as terrariums and aquariums.

• 112.15. Grade 4(b) - 6 (A) differentiate among forms of energy, including mechanical, sound, electrical, light, and heat/thermal;

• 112.16. Grade 5 (b) - 2 (A) describe, plan, and implement simple experimental investigations testing one variable.

• 112.16. Grade 5 (b) - 2 (B) ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology

• 112.16. Grade 5 (b) - 2 (C) collect information by detailed observations and accurate measuring

• 112.16. Grade 5 (b) - 2(D) analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence.

• 112.16. Grade 5 (b) - 2 (F) communicate valid conclusions in both written and verbal forms

• 112.16. Grade 5 (b) - 3 (D) connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.

• 112.16. Grade 5 (b) - 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

• 112.16. Grade 5 (b) - 6 (C) demonstrate that light travels in a straight line until it strikes an object or travels through one medium to another and demonstrate that light can be reflected such as the use of mirrors or other shiny surfaces and refracted such as the appearance of an object when observed through water