For Physics, these general TEKS should be addressed:

(2) Scientific processes. The student uses scientific methods during field and laboratory investigations. The student is expected to:

(A) plan and implement experimental procedures including asking questions, formulating testable hypotheses, and selecting equipment and technology;

(B) make quantitative observations and measurements with precision;

(C) organize, analyze, evaluate, make inferences, and predict trends from data;

(D) communicate valid conclusions;

(E) graph data to observe and identify relationships between variables; and

(F) read the scale on scientific instruments with precision.

(3) Scientific processes. The student uses critical thinking and scientific problem solving to make informed decisions. The student is expected to:

(A) analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information;
(B) express laws symbolically and employ mathematical procedures including vector addition and right-triangle geometry to solve physical problems;

6) Science concepts. The student knows forces in nature. The student is expected to:

(A) identify the influence of mass and distance on gravitational forces;

8) Science concepts. The student knows the characteristics and behavior of waves. The student is expected to:

(A) examine and describe a variety of waves propagated in various types of media and describe wave characteristics such as velocity, frequency, amplitude, and behaviors such as reflection, refraction, and interference;

(B) identify the characteristics and behaviors of sound and electromagnetic waves; and

(C) interpret the role of wave characteristics and behaviors found in medicinal and industrial applications.

(9) Science concepts. The student knows simple examples of quantum physics. The student is expected to:

(A) describe the photoelectric effect; and

(B) explain the line spectra from different gas-discharge tubes.