Physics Power Standards

(revised 2017)

1. The student will be able to state and apply the scientific method to the content areas of Physics.
2. The student will be able to cite specific examples of events and physicists pertinent to the development and current application of classical and modern physics in the scientific community.
3. The student will be able to record, evaluate and mathematically apply measurements in scientific investigations.
4. The student will be able to model, experimentally determine and mathematically analyze motion using a variety of techniques.
5. The student will be able to use vectors qualitatively and quantitatively to express vector quantities used in Physics
6. The student will be able to state and mathematically apply Newton's Laws in identifying, analyzing and measuring forces for objects in linear or circular motion.
7. The student will be able to state and mathematically apply the conservation laws of momentum and energy in mechanical and electrical systems
8. The student will be able to state and mathematically apply principles of charge, field, voltage, current, energy and power in systems involving electricity and magnetism.
9. The student will be able to analyze and apply principles of fluid motion and pressure.
10. The student will be able to define and apply wave concepts in the transmission of light and sound.