

Physical Science Power Standards

(Revised 2017)

1. The student will be able to state and apply the scientific method to the content areas of Physics, Earth Science, and Chemistry.
2. The student will be able to cite specific examples of events and scientists as their ideas apply in daily life.
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 simple velocity, accelerated motion, Newton's Laws and Conservation Laws.
5. The student will be able to state and explain the principles of earth science including rock formation, plate tectonics, and the geologic history of the earth..
6. The student will be able to state and conceptually apply principles of charge, current, voltage, energy and power in simple circuit applications.
7. The student will be able to state and conceptually apply principles of magnetism and electromagnetic induction.
- 8 The student will be able to state and conceptually apply chemical principles of atomic structure, and the equations of formation for simple chemical compounds.
9. The student will be able to use the factor-label method of unit conversion.
10. The student will be able to state and apply the 5 step problem solving process.
11. The student will be able to use scientific formulae to guide their thinking process in understanding physical systems.