

Course Power Standards

Department: Science

Course: Physics/Physics with Technology

Instructor(s): Jessica Rodriguez

1. Students will be able to use science process and thinking skills.
2. Students will be able to demonstrate understanding of science concepts, principles, and systems.
3. Students will be able to communicate effectively using science language and reasoning.
4. Students will be able to demonstrate awareness of social and historical aspects of science.
5. Students will be able to demonstrate an understanding of the nature of science.
6. Students will understand how to measure, calculate, and describe the motion of an object in terms of position, time, velocity, and acceleration.
7. Students will understand the relation between force, mass, and acceleration.
8. Students will understand the factors determining the strength of gravitational and electrical forces.
9. Students will understand transfer and conservation of energy.
10. Students will understand the properties and applications of waves.

Guaranteed and Viable Curriculum: A curriculum that 1) gives students access to the same essential learning regardless of who is teaching the class *and* 2) can be taught in the time allotted.

Power Standard: The knowledge, skills, and dispositions that have *endurance*, *leverage*, and are essential in preparing students for *readiness* at the next level: the most essential learning or outcomes.