

General Syllabus

Conneaut School District Physics

Text Information: Physics: Principles with Applications 6th Edition
Giancoli

Online Text Book: www.prenhall.com/giancoli

Course Description: Physics is a survey of the physical concepts of kinematics, dynamics, statics, energy, waves, and thermodynamics. This course is designed to meet the needs of students who plan to continue study in the field of science and/or technology.

3 Days	What is Science? Scientific Method	S11.A.1.1.2-5, S11.A.2.1.1-5, S11.3.2.3, S11.C.1.1.1
5 Days	Measurement & Tools. Mathematical Review	S11.A.1.1.2-5, S11.A.2.1.1-5, S11.3.2.3, S11.C.1.1.1
4 Days	Linear Motion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
4 Days	Free Fall	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
5 Days	Graphical Analysis	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
5 Days	2D Linear Motion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
5 Days	Projectile Motion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
5 Days	Circular Motion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1, S11.A.3.2.3, S11.A.3.3.3, S11.C.3.1.2, S11.C.3.1.3
4 Days	Newton's Laws of Motion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5

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3 Days	Conservation of Momentum	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
3 Days	Elastic and Inelastic Collisions	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
3 Days	Wave Phenomenon	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1, S11.C.2.1.1
3 Days	Mechanical and Electromagnetic Waves	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1, S11.C.2.1.1
15 Days	Sound and Light	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1, S11.C.2.1.1
8 Days	Refraction, Diffraction, Reflection, Interference	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1, S11.C.2.1.1
3 Days	Kinetic Theory	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1,
3 Days	Thermal Expansion	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1,
3 Days	Calorimetry	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1,
3 Days	Laws of Thermodynamics	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.2.1-3, S11.3.3.1,
6 Days	Static Electricity	S11.A.2.1.1-3, S11.A.3.2.1-3, S11.C.2.1.4, S11.C.3.1.4
10 Days	Ohm's & Kirckoff's Law	S11.A.2.1.1-3, S11.A.3.2.1-3, S11.C.2.1.4, S11.C.3.1.4
10 Days	DC Circuits	S11.A.2.1.1-3, S11.A.3.2.1-3, S11.C.2.1.4, S11.C.3.1.4

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4 Days	Incline Planes	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
4 Days	Friction	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
4 Days	Rotational Dynamics	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
4 Days	Statics & Equilibrium	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
3 Days	Work & Energy Theorem	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
3 Days	Potential & Kinetic Energies	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5
3 Days	Conservation of Energy	S11.A.2.1.1-3, S11.A.2.1.5, S11.A.3.1.2, S11.A.3.2.3, S11.A.3.3.3, S11.C.2.1.3, S11.3.1.2, S11.C.3.2.1, S11.C.3.3.1, S11.C.3.1.5

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Instruction:

- Lecture
- Power point presentations
- Streaming Media
- Demonstrations
- Student Inquiry labs/ Guided labs
- Videos
- CD-Rom instructions
- Cooperation learning

Assessment:

- Success tracker (online testing and remediation)
- Projects/ independent research (power point presentation, research paper)
- Teacher observation
- Tests
- Quizzes
- Lab activities with writing component

Parent/ Student Resources:

- Online textbook with audio capabilities
- Success tracker (online assessment tool)
- Online leveled readers