



**Course Title:** Physics II Honors

**Content Area:** Science

**Grade Level:** 12

## Scope and Sequence

Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials
Thermal Physics	3.2.P.B3. 3.2.12.B3.	5 weeks	Heat energy, engines, motors	Lab worksheets, homework problems, quizzes, tests	Online content that parallels the classroom work that can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Physicsclassroom.com  Teacher created labs  Teacher created worksheets  Teacher created quizzes and tests
Angular Motion and Torque	3.2.12.B1. 3.2.P.B2.	5 weeks	Torque, angular momentum, angular velocity	Lab worksheets, homework problems, quizzes, tests	Online content that parallels the classroom work that can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Physicsclassroom.com  Teacher created labs  Teacher created worksheets  Teacher created quizzes and tests
Characteristics of light energy	3.2.P.B5. 3.2.12.B5.	5 weeks	EM waves, terms of light interaction	Lab worksheets, homework	Online content that parallels the classroom work that	Physicsclassroom.com  Teacher created labs



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				problems, quizzes, tests	can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Teacher created worksheets  Teacher created quizzes and tests
Reflection and light	3.2.12.B5.	5 weeks	Law of reflection, plane mirrors, convex mirrors, concave mirrors	Lab worksheets, homework problems, quizzes, tests	Online content that parallels the classroom work that can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Physicsclassroom.com  Teacher created labs  Teacher created worksheets  Teacher created quizzes and tests
Refraction and Light	3.2.12.B5.	5 weeks	Index of refraction, convex lenses, concave lenses	Lab worksheets, homework problems, quizzes, tests	Online content that parallels the classroom work that can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Physicsclassroom.com  Teacher created labs  Teacher created worksheets  Teacher created quizzes and tests
Quantum theory and	3.2.12.A3.	5 weeks	$E = mc^2$ , relativity equations, radiation, decay	Lab worksheets, homework	Online content that parallels the classroom work that	Physicsclassroom.com  Teacher created labs



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nuclear energy			rates, nuclear equations	problems, quizzes, tests	can be accessed as needed, extra credit problems for students as needed, lab groups to assist students, modified tests and quizzes as needed.	Teacher created worksheets  Teacher created quizzes and tests
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