



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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