

Physics 11 (eak ...090709)

Content	Teaching Strategies/Learning Activities	Assessment	B.C. Curriculum Organizer Linkage
<p>A. The Nature of Physics</p> <ul style="list-style-type: none"> - The Nature of Physics - The Skills and Methods of Physics <p>B: Kinematics</p> <ul style="list-style-type: none"> - 1-D Kinematics ... time, displacement, velocity and acceleration <p>C: Forces</p> <ul style="list-style-type: none"> - 1-D Dynamics ... forces and Newton's Laws - Friction 	<p>1. Text used: <i>Physics: Principles and Problems, Zitzewitz et al.</i></p> <p style="text-align: center;">(Chapters 1-5 as noted in the timeline)</p> <p>2. Laboratories, homework and review assignments.</p> <p>3. Handouts and supplementary problems as required.</p>	<p>1. Assigned work will be reviewed at the beginning of the next class.</p> <p>2. Brief quizzes (unannounced) at least once a week. Each quiz will normally be composed of questions dealing with recently assigned work.</p> <p>3. Problems, worksheets and laboratories collected and checked upon completion.</p> <p>4. Tests (approx. on):</p> <p style="padding-left: 40px;">Intro. Test (Sept. 15) Kinematics (Oct. 7) Dynamics (Oct. 20)</p> <p>5. Class participation and attendance.</p>	<p style="text-align: center;">A1 - 2</p> <p style="text-align: center;">C1 - 2</p> <p style="text-align: center;">D1 - 3, E1</p>

Physics 11 (continued)

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<p>D: Momentum and Energy</p> <ul style="list-style-type: none"> - 1-D Momentum - Work (force & displacement) and Energy - Conservation of Energy - Power and Efficiency <p>E: Wave Motion and Geometric Optics</p> <ul style="list-style-type: none"> - Waves and the Universal Wave Equation - Plane and Curved Mirrors - Refraction ... lenses 	<p>1. Text used: <i>Physics: Principles and Problems, Zitzewitz et al.</i></p> <p>(Chapters 9-11, 14, 16-18 as noted in the timeline)</p> <p>2. Laboratories, homework and review assignments.</p> <p>3. Handouts and supplementary problems as required.</p>	<p>1. Assigned work will be reviewed at the beginning of the next class.</p> <p>2. Brief quizzes (unannounced) at least once a week. Each quiz will normally be composed of questions dealing with recently assigned work.</p> <p>3. Problems, worksheets and laboratories collected and checked upon completion.</p> <p>4. Tests (approx. on):</p> <p style="padding-left: 40px;">Momentum & Energy (Nov. 6) Mid-Term Exam (on Nov. 10) Wave Motion & Optics (Dec. 10)</p> <p>5. Class participation and attendance.</p>	<p>F1, G1 - 4</p> <p>B1 - 3</p>

Physics 11 (continued)

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<p>F: Special Relativity</p> <p>- Fundamental Principles of Relativity</p> <p>G: Nuclear Fission and Fusion</p> <p>- The Nuclear Process</p>	<p>1. Text used: <i>Physics: Principles and Problems, Zitzewitz et al.</i></p> <p>(Chapter 30 as noted in the timeline)</p> <p>supplemented by Chapter 15 of <i>Gordon Gore's text Physics II</i> (electronic version)</p> <p>2. Laboratories, homework and review assignments.</p> <p>3. Handouts and supplementary problems as required.</p>	<p>1. Assigned work will be reviewed at the beginning of the next class.</p> <p>2. Brief quizzes (unannounced) at least once a week. Each quiz will normally be composed of questions dealing with recently assigned work.</p> <p>3. Problems, worksheets and laboratories collected and checked upon completion.</p> <p>4. Tests (approx. on):</p> <p style="padding-left: 40px;">Special Relativity (Jan. 7) Nuclear Fission & Fusion (Jan. 19) FINAL Exam (begin Jan. 25)</p> <p>5. Class participation and attendance.</p>	<p>H1</p> <p>I1</p>

Assessment and Evaluation

Tentatively class marks will be based:

- 40% on class work, laboratories etc.
- 35% on tests
- 20% on quizzes
- 5% as a subjective grade

Physics 11 will have both a mid-Term and Final exam (which will cover all material completed at the time of the exams). As with all grade 11 courses, the exams will comprise 35% of the final grade (and the class mark 65%).

Calculators

A scientific calculator *is essential* for this course. A graphing calculator *is not essential* for the Physics 11 course and examination but will be very useful for the class if you do have one.

Physics 11 Course Timeline

The course timeline can be found at the following internet address:

<http://members.shaw.ca/ekwasniewski>

Explanation of Work Ethic Indicators

G

You arrive to class on time, prepared with all your supplies, notebooks, texts and other related materials. All your work (home and in class) is completed to the best of your ability. You are making every effort to meet deadlines and due dates and are doing your best to keep your notebooks up-to-date and in good order. During class you are attentive and focussed on the various tasks, assignments and projects. You work well in individual and group situations and you appear to be doing your best. You willingly participate and share ideas. You treat yourself, your peers and adults with the respect inherent in the Gospel values. You display good work habits and effort in all that you do.

S

Most of the time you arrive to class on time and are prepared with all your supplies, notebooks, texts and other related materials. Most of your work (home and in class) is completed to the best of your ability. Although you occasionally miss handing in an assignment, you are making an honest effort to meet deadlines and due dates. You usually do your best to keep your notebooks up-to-date and in good order. During class you are attentive and focussed on the various tasks, assignments and projects with only occasional lapses. You work fairly well in individual and group situations and, on most occasions, appear to be doing your best. You are willing to participate and share ideas. You treat yourself, your peers and adults with the respect inherent in the Gospel values. You display satisfactory work habits and effort most of the time.

N

You frequently arrive unprepared for class. You are sometimes missing supplies, notebooks, texts and other related materials. On occasion, you are reluctant to put forth the effort to keep your materials and assignments organized. Homework and assignments are often incomplete or poorly done. During class, you are sometimes unfocussed and easily distracted. You participate infrequently in class discussions. You sometimes treat yourself, your peers and adults with a lack of the respect inherent in the Gospel values. Your work habits need to improve.