

Mr. J.N. Bradshaw

Physics 12

Text:

Physics, Douglas C. Giancoli, Prentice-Hall Canada Inc., Copyright 1991

Big Ideas:

Measurement of motion depends on our frame of reference.	Forces can cause linear and circular motion.	Forces and energy interactions occur within fields.	Momentum is conserved within a closed and isolated system
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Major Learning Content:

1. Vector Kinematics in 2- and 3-D
Motion without reference to causation. d , v , a .
2. Dynamics
Motion with reference to its causes (forces). Newton's Laws.
3. Work, Energy, and Power
Motion from an energy perspective.
4. Momentum
Inertia in motion.
5. Equilibrium
Nature's balancing act.
6. Circular Motion
Things that go in circles
7. Gravitation
There goes that apple again.
8. Electrostatics
Electrons and their effect.
9. Electric Circuits
Basic circuit theory.
10. Electromagnetism
Magnets.

Core Competencies:

Students will be working on the concepts encompassed by the core competencies as represented by the triangles shown below. In part this will entail ongoing self-reflection and goal setting.



COMMUNICATION



THINKING



PERSONAL & SOCIAL

Course Content Evaluation:

Term Marks: 70% Tests
30% Assignments, Quizzes, Labs, etc.

Final Mark: 80% Term Marks **-or-** 20% Term Marks
20% Final Exam 80% Final Exam

Rewrites:

Students may rewrite chapter tests. The rewrite will replace the mark received on the original test.

To rewrite students must:

- 1) Indicate a wish to rewrite a test by registering with the teacher.
- 2) Participate in a tutorial prior to the rewrite.
- 3) Do the re-writes on the date set for a specific lunchtime.
- 4) Demonstrate satisfactory effort during class.

Progress Reports:

Student marks will always be available online at MYEdBC. Please find instructions at this link: <https://pvs.sd83.bc.ca/1748-2/>. You may contact the school for additional assistance.

Required material:

2-inch binder with lined paper, graph paper, and dividers
Scientific calculator
assorted pens, pencils, erasers, etc.

Extra Help:

Extra support is accessible through scheduled appointments during lunchtime and, if required, after school hours.

Missed assignments are expected to be completed by students on their own time, with the guidance and assistance of the teacher during lunchtime.

Web Site: <https://pvs.sd83.bc.ca/bradshaw/>

A copy of this course outline is available here.

Teacher Email: jbradsha@sd83.bc.ca

Please feel free to contact me at this email address.

I have read and understood the course outline:

(Student Signature)

Print Name:

(Parent/Guardian Signature)

Email
Address: