



VIRTUAL CAMPUS

Standards and Procedures for the 2025-2026 School Year

Physics, Secondary 5

Evaluation and Weighting of Competencies:

	Term 1 (20%)	Term 2 (20%)	Term 3 (60%)
Evaluation Methods and Tools			
Practical <ul style="list-style-type: none"> Seeks answers or solutions to problems involving physics Communicates ideas relating to questions involving physics, using the languages associated with science and technology <p style="text-align: right;">(40%)</p>	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (75%) Lab Exam (25%)
Theory <ul style="list-style-type: none"> Makes the most of his/her knowledge of physics Communicates ideas relating to questions involving physics, using the languages associated with science and technology <p style="text-align: right;">(60%)</p>	Unit Tests & Quizzes (~50%) Assignments (~50%)	Unit Tests & Quizzes (~60%) Assignments (~40%)	Unit Tests & Quizzes (35%) Assignments (35%) Final Exam (30%)

General Information regarding evaluation:

In addition to submitted assignments, tests, quizzes, and labs, students will be evaluated informally through class discussions and posts, as well as collaboration in group work during class.

Textbook: Quantum Physics

- WQSB Virtual Campus teachers provide instruction and evaluation for this course.
- The Virtual Campus respects the timetable for report cards identified by each school.
- Online students will write Theory and Practical exams in person according to the provincial schedule, where required by the local school.
- Supervision of tests will be provided by the local school.
- Students must complete their own work and complete evaluations independently. In cases of cheating:
 - First time, students involved will be given zero on the assignment/test with the opportunity to re-do assignment for maximum of 60%. School/family will be informed.
- Second time, students involved will be given zero and additional consequences.

Online Context: Self-Paced – 200 minutes in-school work including 30 minutes of live instruction

PROGRESSION OF LEARNING (Compulsory Concepts) – PHYSICS
Dynamics – Term 1 <ul style="list-style-type: none">– Newton’s laws– Free-body diagram– Equilibrium and resultant of several forces– Force of friction– Gravitational force– Centripetal force– Gravitational acceleration
Kinematics – Term 2 <ul style="list-style-type: none">– Reference systems– Uniform rectilinear motion<ul style="list-style-type: none">• Relationship among position with respect to the point of origin, velocity and time• Displacement and distance– Uniformly accelerated rectilinear motion<ul style="list-style-type: none">• Relationship among acceleration, change in velocity and time• Relationship among acceleration, distance and time• Average velocity and instantaneous velocity• Motion of a body on an inclined plane• Free fall– Motion of projectiles
Transformation of energy – Term 3 <ul style="list-style-type: none">– Relationship among power, work and time– Mechanical energy– Hooke’s law
Geometric optics – Term 3 <ul style="list-style-type: none">– Snell’s laws<ul style="list-style-type: none">• Reflection<ul style="list-style-type: none">- Incident and reflected rays- Angle of incidence and reflection• Refraction<ul style="list-style-type: none">- Incident and refracted rays- Angle of incidence and refraction- Index of refraction– Images<ul style="list-style-type: none">• Type of image (real, virtual)• Image characteristics (magnification, position)