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COMMISSION SCOLAIRE WESTERN QUÉBEC SCHOOL BOARD

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 • Seeks answers or solutions to problems involving physics • Communicates ideas relating to questions involving physics, using the languages associated with science and technology (40%)	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (75%) Lab Exam (25%)
Theory • Makes the most of his/her knowledge of physics • Communicates ideas relating to questions involving physics, using the languages associated with science and technology (60%)	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: Real-Time – 4 50-minute live classes per week

PROGRESSION OF LEARNING (Compulsory Concepts) – PHYSICS
Dynamics – Term 1 – Newton's laws – Free-body diagram – Equilibrium and resultant of several forces – Force of friction – Gravitational force – Centripetal force – Gravitational acceleration
Kinematics – Term 2 – Reference systems – Uniform rectilinear motion • Relationship among position with respect to the point of origin, velocity and time • Displacement and distance – Uniformly accelerated rectilinear motion • 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 – Relationship among power, work and time – Mechanical energy – Hooke's law
Geometric optics – Term 3 – Snell's laws • Reflection - Incident and reflected rays - Angle of incidence and reflection • Refraction - Incident and refracted rays - Angle of incidence and refraction - Index of refraction – Images • Type of image (real, virtual) • Image characteristics (magnification, position)