St. Thomas High School

Course Outline/Evaluation Criteria

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| **Teacher’s Name:** | Greg Griffin – ggriffin@lbpearson.cahttp://ilovemathematics.weebly.com |
| **Course:** | Physics 504  | **Year:** | 2017-2018 |
| **Level:**  | Secondary 5 (Cycle 2 Year 3) | Program: IB IMM |
| **Prerequisites:** | Passing mark in Environmental Science or Science and the EnvironmentRegistered in Secondary V Math T&S or Science Option |
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| **Objectives:** | Students will gain a solid understanding of Physics through experimentation and problem solving.*The following topics will be covered:***Mechanics:** Significant figures and Uncertainty, Vectors, Rectilinear Motion, Projectile Motion, Forces, Gravity, Friction, Newton’s Law, Dynamics, Momentum, Impulse, Work, Energy**Optics:** Light, Reflection, Refraction, Snell’s Law, Mirrors, LensesStudents will also do technology activities throughout the year. |
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| **\*IBO Program** | Approaches to learningScientific and Technical InnovationOrientations in Time and SpaceAll of the above areas will be covered in assignment and/or course contentStudents will also be evaluated using the IBO criteria for both Science and Technology. |
| **Links to Global** |
| **Context** |
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| **Required Texts:** | Quantum Physics |
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| **Materials:** | Large binder, copybook, loose-leaf, ruler, protractor, calculator (scientific) |
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| **Evaluation Criteria:** | Practical Component (Labs) (40%) * Seeks answers and solutions to problems involving Physics

Theory Component (Quizzes, Tests and Exams) (60%) * Makes the most of his/her knowledge of Physics
* Communicates by using the languages of science and technology

There will be a mid-year evaluation for this course (in December).There will be a final evaluation for this course (in June).Lab exams will take place throughout the year. |
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