

St Paul's International College, Scope and Sequence, Physics, Stage 6, Year 12, 2023-2024

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--|------------|
| Term 4 | Module 5 - Advanced Mechanics | | | | | | | | | |
| | Students examine motion in two dimensions, including projectile motion, uniform circular motion and the orbital motion of planets and satellites. | | | | | | | | | |
| | Outcomes: PH11/12-4, PH11/12-5, PH11/12-6, PH11/12-7, PH12-12 | | | | | | | | | |
| | Assessment: Research Task (PH11/12-2,3,4,5,6,7, PH12-12) | | | | | | | | | |
| Term 1 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10/11 |
| | Module 6 - Electromagnetism | | | | | | | | Module 7 - The Nature of Light | |
| | Students explore the forces acting on moving charged particles in magnetic fields. | | | | | | | | Students analyse and describe evidence for the properties of light and evaluates the implications for modern theories of physics | |
| | Outcomes: PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/12-5, PH12-13 | | | | | | | | Outcomes: PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/12-7, PH12-14 | |
| Assessment: Depth Study Advanced Mechanics/ Electromagnetism (PH11/12-1 to PH11/12-7, PH12-12, 13) | | | | | | | | | | |

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| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | |
|---------------|---|--------|--------|--------|--------|--------|---|--------|--------|---------|
| Term 2 | Module 7 – cont.... | | | | | | Module 8 - From the Universe to the Atom | | | |
| | | | | | | | Students investigate the current model of the atom through analysing evidence supporting the relationship between astronomical events and the nucleosynthesis of atoms. | | | |
| | | | | | | | Outcomes: PH11/12-5, PH11/12-6, PH11/12-7, PH12-15 | | | |
| | Assessment: Data Analysis The Nature of Light/ From the Universe to the atom (PH11/12-4,5,6,7 PH12-14,15) | | | | | | | | | |
| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 |
| Term 3 | Module 8 – cont.... (+ 1 week of trial exams) | | | | | | REVISION | | | |
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| | Assessment: Assessment Task 4 - Trial Examination (PH11/12-1 to PH11/12-7 and PH12-12 to PH12-15) | | | | | | | | | |