NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Year 12 Physics Self-Assessment: Electricity and Magnetism

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| **Learning Intention** | **Review Test Question** | **Chapter Questions** | **Proficiency** | **Comments/questions** |
| Coulomb’s law | 2(f) | 48-49 |  |  |
| Vector sum of charge forces | - | 50-52 |  |  |
| Electric field lines | - | 53 |  |  |
| Electric field strength | - | 54-56 |  |  |
| Electric field inside a conductor | - | 57-58(a) |  |  |
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| Electric potential difference | - | 59 |  |  |
| Electric field strength between plates | - | 60(b)-(c), 62(a) |  |  |
| Motion parallel to electric field | - | 60(a),(d)-(e), 61, 62(b), 63 |  |  |
| Electric field in a cyclotron | - | 76(c),(d)(1), 77(a)(1) |  |  |
| Motion perpendicular to electric field | 2(a)-(d) | 64-66 |  |  |
| Magnetic field lines | 1(d) | 67(a)-(b), 68(a)-(b) |  |  |
| Magnetic field strength near a conductor | 1(e) | 67(c)-(d), 68(c) |  |  |
| Magnetic force | 2(e)3(a) | 69-73 |  |  |
| Circular motion in a magnetic field | - | 74-75 |  |  |
| Production of radioisotopes | - | 76(g) |  |  |
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