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Year 12 Physics Self-Assessment: Motion

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| **Learning Intention** | **Formative Test Question** | **Chapter Questions** | **Proficiency** | **Comments/questions** |
| Motion equations, components of projectile motion | 1, 2(a) | 1-4 |  |  |
| Projectile calculations | 2(b)-(d) | 5-11 |  |  |
| Drag force and air resistance | 1(d)-(f) | 12-14 |  |  |
| Newton’s 2nd Law in terms of momentum | 3 | 15-17 |  |  |
| Conservation of momentum | 4-5 | 18-24 |  |  |
| Spacecraft propulsion | 6 | 25-26 |  |  |
| Centripetal acceleration | 7 | 27-29 |  |  |
| Banking of curves | 8 | 30-33 |  |  |
| Gravitation | 9, 10(d) | 34 |  |  |
| Satellites | 10(a)-(c),11(c) | 36-37 |  |  |
| Kepler’s laws of planetary motion | 9(b)-(c), 11(a)-(b) | 35 |  |  |