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| **What will we be learning?**Forces 4 | **Why this? Why now?** AQA Combined & Separate Science - PhysicsForces 1Forces 2Forces 3 | **Key Words:**Make sure you know the definitions of these keywords and use them in your answers.ScalarVectorAccelerationDeccelerationSpeedVelocityDistanceDisplacementStopping distanceThinking distanceBraking distance |
| **What will we learn?**V = s / t Velocity = distance / timea = (v-u) / t Acceleration = change in velocity / timeF = ma Force = mass x accelerationEk = ½ mv2 Kinetic Energy = ½ x mass x velocity squaredW = mg Weight = mass x gravitational field strength Stopping distance = thinking distance + braking distanceCommon Misconceptions: Weight and mass are the same thing |
| **What opportunities are there for wider study?**Collins Revision guide relevant pages for this unit:Triple: 14-21 Higher: 164 - 169 Foundation: 162-163Car designer Sports coach Police Officer Crash Investigator Logistics Air Traffic Control Navigator |
| **How will I be assessed?**Deep Marking Task Title for this unit: Required Practical on accelerationRequired Practical(s) for this unit: Investigating Acceleration |