|  |  |  |
| --- | --- | --- |
| **What will we be learning?** Forces 3 | **Why this? Why now?**Forces 1Forces 2Forces 4AQA Combined & Separate Science - Physics | **Key Words:**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: 162 - 163 Foundation: 158-161Car designer Sports coach Police Officer Crash Investigator Logistics Air Traffic Control Navigator |
| **How will I be assessed?**Deep Marking Task Title for this unit: Terminal Velocity |