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| **What will we be learning?**  Forces 4 | **Why this? Why now?**  AQA Combined & Separate Science - Physics  Forces 1  Forces 2  Forces 3 | **Key Words:**  Make sure you know the definitions of these keywords and use them in your answers.  Scalar  Vector  Acceleration  Decceleration  Speed  Velocity  Distance  Displacement  Stopping distance  Thinking distance  Braking distance |
| **What will we learn?**  V = s / t Velocity = distance / time  a = (v-u) / t Acceleration = change in velocity / time  F = ma Force = mass x acceleration  Ek = ½ mv2 Kinetic Energy = ½ x mass x velocity squared  W = mg Weight = mass x gravitational field strength  Stopping distance = thinking distance + braking distance  Common 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: 162-163  Car 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 acceleration  Required Practical(s) for this unit: Investigating Acceleration | |