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| **What will we be learning?**  Speed | **Why this? Why now?**  Previous Learning:  KS2 Forces, KS3 Gravity  Future Learning  KS3 Pressure unit (year 8), KS3 Contact forces unit (year 8), GCSE Forces (AQA)  Enquiry Processes  Discuss limitations to experiments  Draw conclusions from data  Analyse patterns in data  Record data accurately | **Key Words:**  Distance  Time  Speed,  Force,  Balanced,  Unbalanced,  Relative,  Gradient,  Variable |
| **What will we learn?**   * Predict changes in an object’s speed when the forces change. * Explain why an object’s motion changes * Describe how a resultant force affects the motion of an object * Calculate speed from a distance-time graph * Illustrate a journey in a distance-time graph * Suggest how the motion of two objects moving at different speeds in the same direction would appear * Describe how the speed of an object varies when measured in different positions * Calculate speed using a given equation   **Misconceptions in this topic**   * Energy and forces – mixing up * Balanced forces – understanding that that they cancel each other out * Line graphs in maths and science – in maths line graphs are different. | |
| **What opportunities are there for wider study?**  Careers  Engineer Astronomy Telecommunication Lab technician Teacher  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of unit assessment | |