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| **What will we be learning?**Speed | **Why this? Why now?** Previous Learning:KS2 Forces, KS3 GravityFuture Learning KS3 Pressure unit (year 8), KS3 Contact forces unit (year 8), GCSE Forces (AQA)Enquiry ProcessesDiscuss limitations to experimentsDraw conclusions from dataAnalyse patterns in dataRecord data accurately | **Key Words:**DistanceTime 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.
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| **What opportunities are there for wider study?**CareersEngineer Astronomy Telecommunication Lab technician TeacherSTE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of unit assessment |