Ork Community School

Speed

What's the science story? What is speed? How do we measure it? How	v can we go faster?		
Previous knowledge: Key stage 2 forces topics.		Next steps KS4 Physics – paper 2	, j
Keywords Speed, Vector, Time, Distance, Variables, Force	Analyse Evaluate Conclusion Investigate Pattern Trends		
Working scientifically skills:		Assessments:	
 WS1 WS2 WS3 WS7 WS8 WS9 WS10 WS13 WS14 WS15 WS16 		Exit ticket - Speed	

KS3 – Year 8

Lesson No. and Title	Learning objectives	National Curriculum	Practical equipment
1. Speed	ARE - To calculate speed using distance and time. AGD - To rearrange the speed equation to calculate a different subject.	 speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time) the representation of a journey on a distance-time graph relative motion: trains and cars passing one another 	
2. Investigating Speed	ARE – To apply the speed formula triangle to a moving object. AGD – To analyse the results from a scientific investigation.	 speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time) the representation of a journey on a distance-time graph relative motion: trains and cars passing one another 	Falling cupcake cases Metre ruler Cupcake case Stopwatch
4.Speed/distance graphs	ARE – Draw a distance-time graph. AGD - Interpret a distance-time graph.	 speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time) the representation of a journey on a distance-time graph relative motion: trains and cars passing one another 	

KS3 – Year 8

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