Topic 7: Speed





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Lesson No. and Title	Learning objectives	National Curriculum	Working scientifically skills	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 	RSE >>	Falling cupcake cases Metre ruler Cupcake case Stopwatch

ERFORM



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					
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		speed and the quantitative relationship between average					
4. Considering results	ARE – To draw a conclusion based on your results. AGD - To use your graph to make predictions and estimates	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					
Assessment 1: Distance-time graphs and speed							





Assessment Criteria

QUESTION

Assessment No. & Title	Working Towards	Age Related Expectations	At Greater Depth
n/a C	Define relative motion	Calculate speed using the speed equation	Explain what is meant by relative motion and how it can be calculated
	Use a distance-time graph to describe a journey qualitatively	Calculate speed from a distance-time graph.	Draw distance-time graphs for a range of journeys
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