

Using the British Schools Karting Championship to support STEM learning

Subject study based on the BSKC supports learning in **Key Stage 3** as shown below:

Subject	Attainment Target	BSKC related area of study	
Science	AT2	Reaction times	
	AT3	Metals and Composites	
		Fuels	
		rueis	
	AT4	Forces and Motion	
		Speed, Velocity and Acceleration	
		Equations of Motion	
		Structures and strength	
		Friction	
		Levers and moments	
		Hydraulics	
		Gears	
Technology	Design Technology	Form and Function	
		Materials and their properties	
		Materials and their properties Manufacturing methods	
		Control Systems	
		Bearings and movement	
		Machining methods	
		Control systems	
		Motors and gears	
		Hydraulics	
		Adjustment and improvement	
Mathematics	AT1	Average, mean and median	
		Statistical analysis	
		Number and pattern	
	AT4 Handling Data		



Key Stage 4

A selection of core examination and qualification programmes of study matches to project study linked to kart manufacture and competition in the BSKC:

BSKC Project	Exam Board	Syllabus
Kart design, manufacture, build and development	Cambridge	Design Technology IGCSE
	EdExcel	Engineering Diploma
	AQA	Engineering GCSE
	OCR	Resistant Materials GCSE
	WJEC	Resistant Materials GCSE
		Control Systems GCSE
	EdExcel	BTec First
Maximising Friction - Braking and grip	OCR	Engineering GCSE
Minimising Friction – Axles, bearings and running gear	OCR	Engineering GCSE
Competing in BSKC - Analysing Motion	EdExcel	Science GCSE (2006) Science GCSE (2011)
Competing in BSKC - Speeding up and slowing down	EdExcel	Science GCSE (2006) Science GCSE (2011)
Circuit Data - Lap Analysis and evaluation	OCR	Mathematics A GCSE