



'Kick Starting Engineering Excellence'

Formula Schools Points Criteria - Electric Challenge

Range	Max marks	0-4	5 - 7	8 - 10	
Engineering	Chassis 10	Chassis produced	Chassis designed and engineered to specific criteria	Chassis engineered with structure and material choice dictated by specific design criteria	Total points available 30
	Suspension and steering 10	Standard suspension and steering	Improved, designed to survive races	Re-engineered to improve handling	
	Motor and powertrain 10	Standard installation, with attention to detail.	Novel installations of powertrain components to improve performance	Performance and reliability improved with modifications for each race category. All round package including tyres, wheels, brakes work in harmony to improve overall performance.	
Body and Aerodynamics	Body shell 10	Dimensions correct, car easily identified.	Body-shell developed to improve car performance. Body stays on during races	Quality product with attention to detail in manufacturing stage. Advanced materials used in design and manufacture; e.g CAD/ CNC composite materials for components etc	Total points available 20
	Styling and artwork 10	Styled and finished to a pre determined criteria	Supporting design work drawing from different inspirations	Quality end product with attention to detail with high visual impact Consideration given to aerodynamic features	
Teamwork	Marketing 10	Have a team identity	Have quality materials for marketing car and team, both within and outside of the immediate school environment.	Have an extensive marketing programme, possibly including: newsletters, a team web site, PowerPoint presentation etc Have benefited from marketing such as raising sponsorship.	Total points available 20
	Teamwork Company links 10	Have a team with specific roles	Have worked with sponsor(s) leading to a better understanding of engineering	Link companies have taken an active role in the team. Pupils have gained knowledge through a working relationship with a partner company.	

Total Points Allocation	
⊞	Engineering 30
⊞	Body and Aerodynamics 20
⊞	Teamwork 20
Total	70

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