



'Kick Starting Engineering Excellence'

Formula Schools Points Criteria

EXPERTS

Range	Max marks	0-2	3 - 5	6 - 8	9 - 10
Engineering	Chassis 10	Some changes made to chassis	New chassis; structure and material choice dictated by properties	Layout; weight distribution; chassis optimised for racing	Scratch engineered using specialist materials and/or production techniques
	Suspension and steering 10	Standard suspension and steering	Improved geometry, designed to survive races	Re-engineered from standard system, more sophisticated but tougher system, responsive to track conditions	Correct suspension geometry Adjustable; optimised for driveability
	Engine 10	Standard installation, with minor modifications	Novel engine installation, improved controls	Modified installation, fuel, air, exhaust or other relevant improvements	Engine re-worked to improve performance and reliability
	Power-train 10	Basic drive system	Improvements in terms of reliability and power transfer	Completely re-worked power-train	Advanced power-train system which improves car performance
	Braking 10	Standard equipment used	Working system incorporated	Effective braking system which improves performance	Advanced braking system
	Tyres 10	Standard equipment used	Custom wheels and tyres to enhance performance	Tyre choice investigated in terms of materials and availability	Comprehensive tyre policy for different conditions
		0 - 3	4 - 7	8 - 10	
Body and Aerodynamics	Body shell 10	Dimensions correct, car easily identified. Body stays on during races	Body-shell developed to improve car performance. Attention to detail in manufacturing stage	Advanced design, investigating material and manufacturing options and, where possible, manufactured to the desired specification	Total points available 30
	Aerodynamics 10	Consideration given to aerodynamic design	Comparative testing to aid design development of body shell. Modifications included in production model	Aerodynamic testing as part of the development leading to a total body system which enhances performance and aesthetic qualities	
	Aesthetics 10	Functional product with little consideration to appearance	Styled and finished to a pre determined criteria	Quality surface finishing with attention to detail, including artwork if appropriate	

Total points available 60

Total Points Allocation	
Engineering	60
Body & Aerodynamics	30
Teamwork	30
Total	120



'Kick Starting Engineering Excellence'

Teamwork	Finance 10	Have raised some sponsorship funds	Have devised an organised system for raising sponsorship	Have an extensive programme with team responsibility for financing the project with outline accounts. Have produced a financial model for the scheme
	Company links 10	Have linked with a company	Have worked closely with sponsor(s) exchanging views and ideas leading to a meaningful link, giving a partnership approach to aspects of the project	Feedback from sponsoring company(ies) giving supportive evidence of a mutually beneficial relationship
	Marketing 10	Have produced some marketing information	Have quality materials that have been used to promote aspects of the project to unfamiliar audiences	Have used a range of media appropriate for getting the message across. Have kept materials interesting and up to date

Total points available 30