

Formula Schools Points Criteria

Electric Engineering Class

Range	Max marks	0-2	3 - 5	6 - 8	9 - 10
Engineering	<i>Chassis</i> 10	Chassis made to EYF* drawings	High quality product with to dimensional accuracy	New chassis design structure and/ or material choice.	Layout; weight distribution; chassis optimised for racing
	<i>Suspension and steering</i> 10	Standard suspension and steering manufactured to EYF drawings	High quality assemblies with to dimensional accuracy	Re-engineered from standard system, with relevant improvements.	Correct suspension geometry Adjustable; optimised for driveability
	<i>Power-train</i> 10	Basic drive system to EYF drawings	Improvements in terms of reliability and power transfer	Completely re-worked power-train	Advanced power-train system which improves car performance
	<i>Braking</i> 10	Standard EYF car with no brakes	Working system designed and prototyped.	Effective braking system incorporated	Advanced braking system which improves performance
	<i>Tyres</i> 10	Standard equipment used	Custom wheels and tyres to enhance performance	Tyre choice investigated in terms of performance, materials and availability	Comprehensive tyre policy for different conditions
		0 - 3	4 - 7	8 - 10	
Body and Aerodynamics	<i>Body shell</i> 10	Simple effective bodyshell produced	Quality bodyshell with attention to detail in manufacturing stage.	Advanced design, investigating material and manufacturing options.	Total points available 30
	<i>Aerodynamics</i> 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.	
	<i>Aesthetics</i> 10	Functional product with consideration to appearance	Styled and finished to a pre determined criteria	Quality surface finishing with attention to detail, including artwork if appropriate	
Teamwork	<i>Company links</i> 10	Have linked with a company	Have exchanged views and ideas giving a partnership approach to aspects of the project	Have worked closely with sponsoring company(ies) with evidence of a mutually beneficial relationship	Total points available 20
	<i>Marketing</i> 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 50

Total Points Allocation	
Engineering	50
Body and Aerodynamics	30
Teamwork	20
Total	100

* Engineering Your Future drawings sent out to all centres