

IMAGINE



1st place:
£250,000
2nd place:
£100,000
3rd place:
£50,000

DRIVEN TO INSPIRE: THE SCIENCE OF GOING FAST!

COST OF VALUE WORKSHEET

Team name:

Budget:

Finish time:

Fuel usage:

Vehicle Features

TYRES

BODY

ENGINE

SUSPENSION

Cost

Cost

Cost

Cost

Total

Budget left over:

New finish time:

POWERED BY



TYRES



Slick tyres £2,500	High grip on smooth, dry tracks. Very good over a short number of laps. Wear out quickly, poor performance on rough or wet surfaces.
Treaded tyres £2,000	Good allrounder, average performance in wet or dry conditions.
Off road/ durable tyres £1,500	High grip on off road. Good performance on loose or wet surfaces, long lasting. Poor grip on track.

BODY



Full aero package £7,500	Big wings/ Body kit/ Diffuser/ Splitter - Increased downforce, increased drag. Lightweight.
Medium aero package £4,000	Small wings/ Diffuser/ Splitter - Slightly increased downforce, small amount of drag. A good compromise between all types of track.
No aero package £0	No generated downforce, no drag.

ENGINE



Large capacity engine £20,000	Increased power, higher top speed and greater acceleration. Increased fuel consumption.
Mid-size capacity engine £15,000	Decent all-round, with no major advantages or drawbacks.
Small capacity engine £8,000	Less power, lower top speed, reduced fuel consumption.

SUSPENSION



Soft suspension £3,000	Good for preserving tyres.
Medium suspension £7,000	Decent all round with no major advantages or drawbacks.
Hard suspension £8,000	Good for rapid change of direction.

GEARS



Gears in a racing car affect acceleration. Long ratio gears support higher top speeds and slow acceleration whereas short ratio allow for faster acceleration. Short ratio gears are more likely to be used in a rally car as they scabble for grip.

WINGS



Aerodynamics are key to a car's performance. Increased aerodynamics increases the weight of the vehicle; this can improve lap times on certain tracks as by pushing the car down into the ground it produces more grip.

FUEL TANK



Vehicles needs fuel to run the engine. More fuel means your car will run for longer but will increase the weight. Less fuel means the car will be lighter but won't go as far.

BRAKES



Brakes are a piece of equipment that slows the vehicle down. More robust brakes do this much quicker at the cost of more weight; lighter brakes aren't as strong or durable but can save weight in lower powered cars.

POWERED BY

