

Programa

F1 in Schools BRZ 2014

#F1isBRZ



O que é o F1inSchools ?

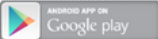
Programa STEM
Atividade extra curricular
Projeto Coletivo
Campeonato Mundial
Jogo Colaborativo
Mini-Empreendimento

Conhecimento: O que?
Como?
Porque?

**F1inSchools BRAZIL**



The smartphone screen shows the app's home page with a header for 'THE FORMULA ONE TECHNOLOGY CHALLENGE' and a navigation bar with links: 'About Us', 'Mentoria & T', 'Twitter', 'Cadastro', and 'Mais'. The main content area features the title 'F1inSchools BRAZIL' followed by a paragraph describing the program as an educational challenge through the magnetic appeal of Formula One. Below this is a 'Descrição' section with more details about the program and a 'Saiba mais' link.

BAIXE AGORA
através das app stores



Por e-mail

Através do código QR

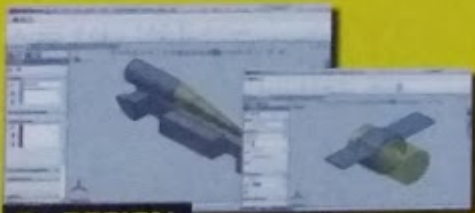

The Competition

What's it all about?

You are a Formula One™ team commissioned to design, construct and race the fastest Formula One Car of the Future, powered by compressed air cylinders.

1 - FORM A TEAM

Form a team of 3 - 6, think of a name, decide job roles: Team Manager, Manufacturing Engineer, Design Engineer, Graphic Designer and Resource Manager. Now register for regional finals.



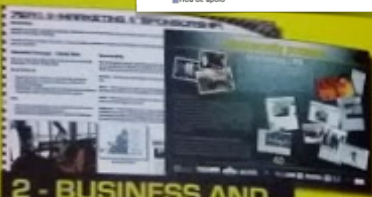
3 - DESIGN

Using 3D CAD (Computer Aided Design) software, design an F1 car of the future to the specifications set by the International Rules Committee just like in Formula One™.



5 - MAKE

Using 3D CAM (Computer Aided Manufacturing) software,



2 - BUSINESS AND SPONSORSHIP PLAN

Prepare a business plan, develop a budget and raise sponsorship. Teams are encouraged to collaborate with industry and create business links.



4 - ANALYSE

Aerodynamics are analysed for drag coefficients in a virtual wind tunnel using Computational Fluid Dynamics Software (CFD).



6 - TEST

Aerodynamics are tested in wind and smoke tunnels.



7 - PIT BOOTH

Put together an informative display showing your work through all stages of the project. Think about your team identity.



8 - SCRUTINEERING

Cars are submitted to pit teams where the judges scrutineer every dimension to check they comply with the Rules and Regulations.



9 - ENGINEERING JUDGING

Judges question teams on how their car has been manufactured and why particular designs were chosen.



10 - VERBAL PRESENTATION

Prepare a presentation to perform to a panel of judges covering all aspects of the challenge. This will be completed within a set time limit. [10 mins]



11 - PORTFOLIO JUDGING

Put together a 20 page A3 portfolio documenting your project.



12 - RACE

Time to test what your team has worked so hard together to achieve: a winning car.

Equipe ? alunos ? mentores

Multi-disciplinar: Física, Aerodinâmica,
Matemática, Computação, Português,
Inglês, Finanças, Marketing....

Cooperativa: espaço, usinagem,
teste, pintura, mensurar....



Portfolio



Recursos



Guia do Programa F1inSchools BRZ 2014



f1inschools.com.br
#F1inBRZ2014

1/23

Gestão Projeto: Metodologia & Plataforma de Suporte

Plano de negócios: Roteiro com suporte digital

Financiamento: Plataforma de Crowdfund

Regras e regulamentos: documentação da F1inSchools

Desenho do Carro: Plataforma de CAD-CAM-CFD

Matéria Prima: Kit básico + impressão 3D + materiais

Cronograma: carro de competição até outubro 2014