



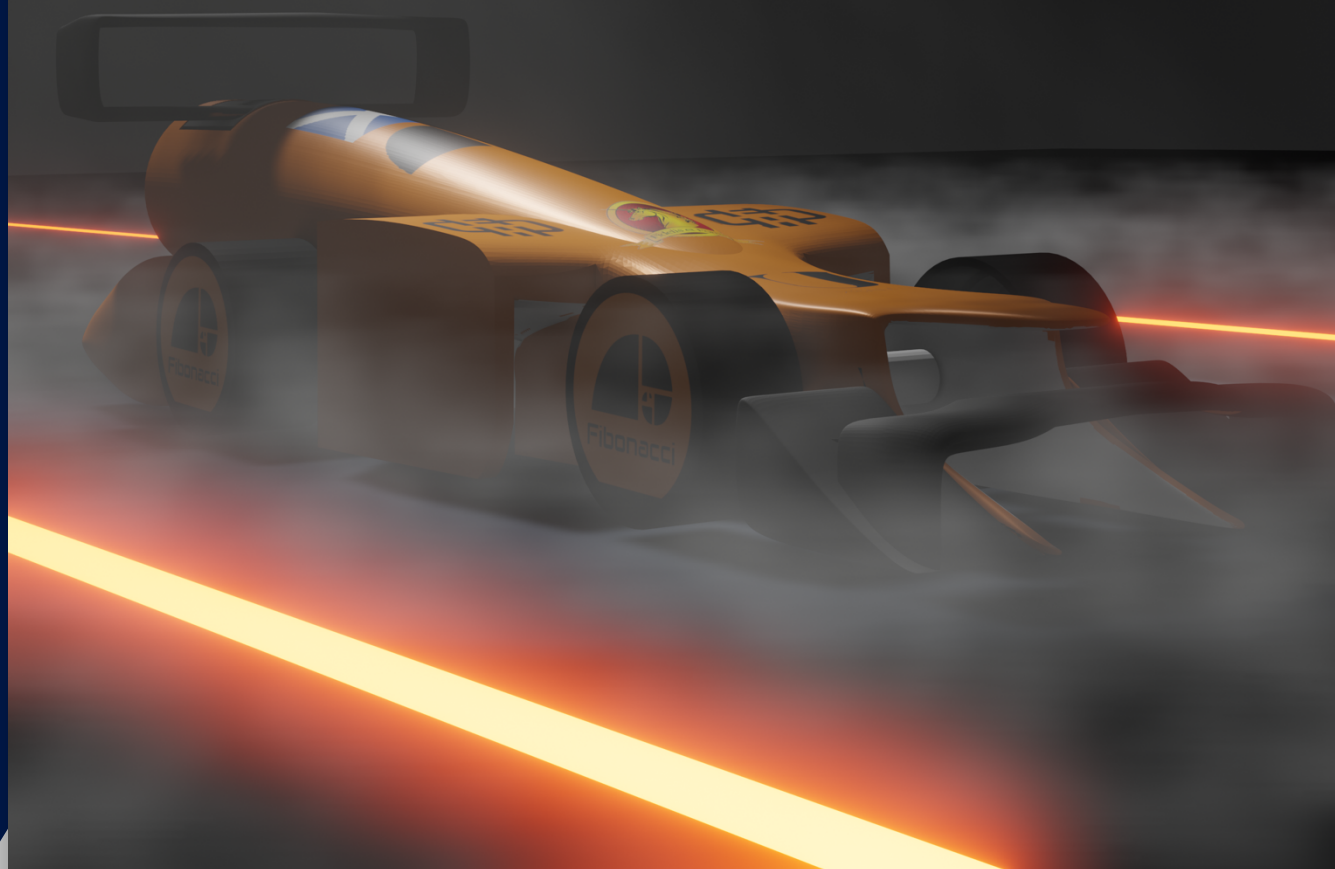
Fibonacci



in Schools

PARTNERSHIP
PROPOSAL

2022 SEASON



Welcome! We are Fibonacci, the Scottish Champions of F1 in Schools 2021

F1 in Schools is an engineering centred competition which gives students like us the opportunity to create, innovate, and to inspire younger generations. In this booklet we invite you to **support us** in becoming the next **World Champions**.



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Hello!

We are a group of High School Students competing in the world's **largest engineering competition**: 'F1 in Schools'.

Last July we **won** the Scottish Championships and went on to win again at the UK Nationals, qualifying for the **World Finals**.

We are **supported** by our schools: George Heriot's School and James Gillespie's High School, and our teachers as we compete **internationally** at the highest level of F1 in Schools.



Our Team

"As the project manager of Fibonacci I've had the **job of organising the team** across two schools, thoroughly engaging in all aspects of the team. I have the job of **designing our car** and the **responsibility** of ensuring the success in Fibonacci's journey"

Mattie Ball Project Manager + Design Engineer



"Working on testing and analysing our car has given me great insights into how we can improve our designs. Taking on the role of manufacturing engineer has given me the opportunity to ensure our designs are brought into the real world as accurately and efficiently as possible."

Kenneth MacIver Manufacturing Engineer



"I am the first correspondance for Fibonacci, my main role is finding sponsors and keeping them up to date with our progress as a team. I reach out to local companies to find materials and support from our community as well as professionally handling all of the team's Public Relations."

Jess Taylor Head of Public Relations



"Building on our teams image is my main priority. By organising fundraisers and creating and maintaining our online social presence I hope to expand our teams reach and introduce Fibonacci to new opportunities all while managing our resources efficiently as to maximise our team's impact."

Amius Marshall-De'Ath Graphic Designer



What is it?

The F1 in Schools challenge is the world's **largest and most successful STEM initiative**, with a staggering reach of over 20 million students globally and 40 countries competing.

The competition challenges high schools students between the ages of 9 and 18 to push the **limits of engineering** and compete for the title of F1 in Schools World Champion.



Teams are tasked with designing, engineering and manufacturing a scale Formula One car. At the competition the cars race down a 20 meter track in close to a second.

The challenge is also inclusive of an enterprise aspect in which teams have to raise funds to finance competing as well as promoting their brand through newspapers and social media.



SUPPORTED BY



IN NUMBERS



49 COUNTRIES
COMPETING



THOUSANDS OF
TEAMS EVERY YEAR



20 MILLION +
STUDENTS



MILLIONS OF
RACES

INNUMERABLE AND INVALUABLE AMOUNTS OF...



MILES
TRAVELED



IDEAS
EXCHANGED



COFFEE
DRUNK

For More Information

We recommend the 'Off The Track' Podcast where previous World Champions discuss the competition and share the latest regulation changes and updates.

The 'F1 in Schools' Wikipedia page has details of the 49 countries competing and the history of the competition.

You can even head to the Official 'F1 in Schools' Website to learn more.

OFF THE
TRACK

F1
in Schools

WHY?

BRAND IMAGE

You become associated with the best young engineers in Scotland taking on the World.

INVESTING IN THE FUTURE

Your support makes it possible for us to push the boundaries of technology and together amaze the world.

STEM EDUCATION

By supporting us you are raising the profile of STEM in schools, inspiring future generations.



STEM Education

Through F1 in Schools we are gaining the skills and knowledge to succeed in engineering and STEM careers.

It is a student led competition and for the last 2 years we have learnt everything from marketing strategies to the CAD designing and CFD testing of our car.

We learn how to practically apply theoretical concepts to make our car faster.

Investing in the Future

With the funding and resources available to our team, we have developed to an award winning, top-level team. All the knowledge and lessons learned are being passed on to younger up-and-coming teams.

This strong foundation of collaborations and creative applications builds a vibrant future of competent innovators.



Brand Image

As a successful team we have all eyes on us as we prepare and compete at the World Finals. Our partners are proudly visible across our teamwear, car and display booth, bringing positive brand association between Fibonacci and our sponsors.

By being on our teamwear, your brand will be tied to an incredible initiative showcasing the best of young engineers.

CAR REGULATIONS

2022 Season

WORLD RECORD IS

0.916seconds

Set by Infinitude in 2016

MAX LENGTH
210mm

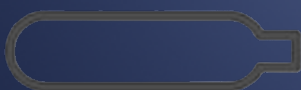
MIN WEIGHT
50g

SPEEDS OF OVER

80km/h

RACES WON BY

0.001seconds



All cars powered
by 8g CO₂

Cartidge
minimum height
above track
surface is 30mm

Spare parts can be
made in case the car
breaks

Main body made
from Official F1
Model Block

No systems can
interfere with the
CO₂ canister



Wheels can be
manufactured
from any material

Ø28mm Min Diameter

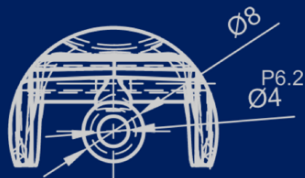
12mm

Front Wheel Width 12mm

15mm

Rear Wheel Width 15mm

← Our Car!



ENLARGED
VIEW A

A (1:1)

THE TRACK

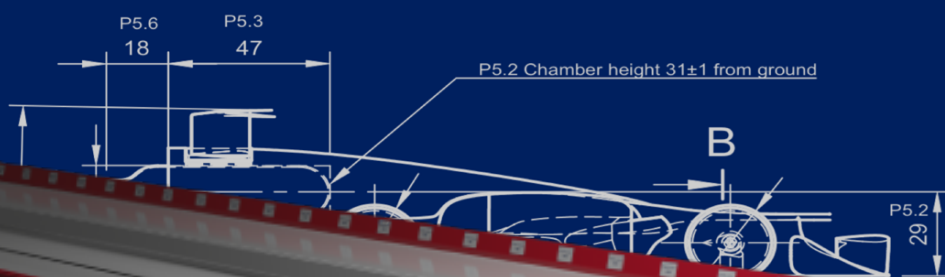
The Race Control System features two lightgates. The Start Gate shows the reaction time, the time the car took to complete the race, and the addition of the two, the total race time. If the race cars break midrace it's recorded as a DNF (Did Not Finish). The cars race against each other on the two lane track, and the fastest cars win points for the team.



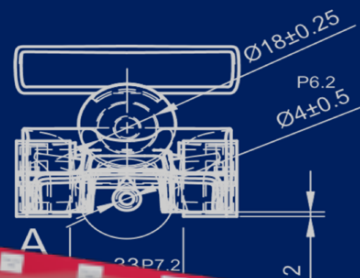
SECTIONAL END



Cars are launched by start boxes. They feature silver steel firing pins with a torsion spring that's latched under pressure. The spring is uncocked when the race trigger is pressed. Part of the challenge is the team's race reaction times, on how quickly they can press the race trigger from the moment all lights go red on the Start Gate.



SCALE 1:3



The track is
20 Meters Long
Totally straight with a smooth surface.

A tether line guide runs parallel to the track to keep the cars from lifting off.



Fibonacci