

ImagineX Racer App

<https://imaginexracer.com> – v0.9.5

User Journey – All

Initial View / Login

Location: <https://imaginexracer.com>

Description:

- All users start from this initial screen. It allows both teachers and students to take separate paths. Depending on how the user chooses to use the app.

IMAGINEX
RACER



In association with



Hello there,
please select one of the options below to get started.



Teacher
OR
Organiser



Student
OR
Participant

User Journey - Teacher

Location:

<https://imaginexracer.com/t/signup>

Description:

- Teachers & Organisers have a bespoke account creation page separate to that of the students.
- From here we capture some data while also getting consent for the technologies used.
- We also ask if this information is to be shared with RS & PDC.



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Please fill in the details below

Firstname	Surname
Joe	Bloggs
Email	
haydn.comley@versionmaybe.com	
Password	Verify Password
.....	*****
Location	School / Organisation
...	...
By creating an account you have to agree to our Terms & Conditions	
<input type="checkbox"/> Yes, I Agree https://www.versionmaybe.com/terms-and-conditions	
Would you like to receive information from the following:	
<input type="checkbox"/> RS Components https://uk.rs-online.com/	<input type="checkbox"/> PDC Racing https://www.pdc racing.com/

Already have an account?

Login Now

Location:

<https://imaginexracer.com/t/dashboard/new>

Description:

- If the teacher has just logged in, they are shown a page like the following.
- At the moment when a race is created it is pre-populated with a template, this has plans to allow teachers to create their own custom races for students to join but has been simplified to begin with.

NO ACTIVE RACE

Home

CURRENT RACE

Dashboard

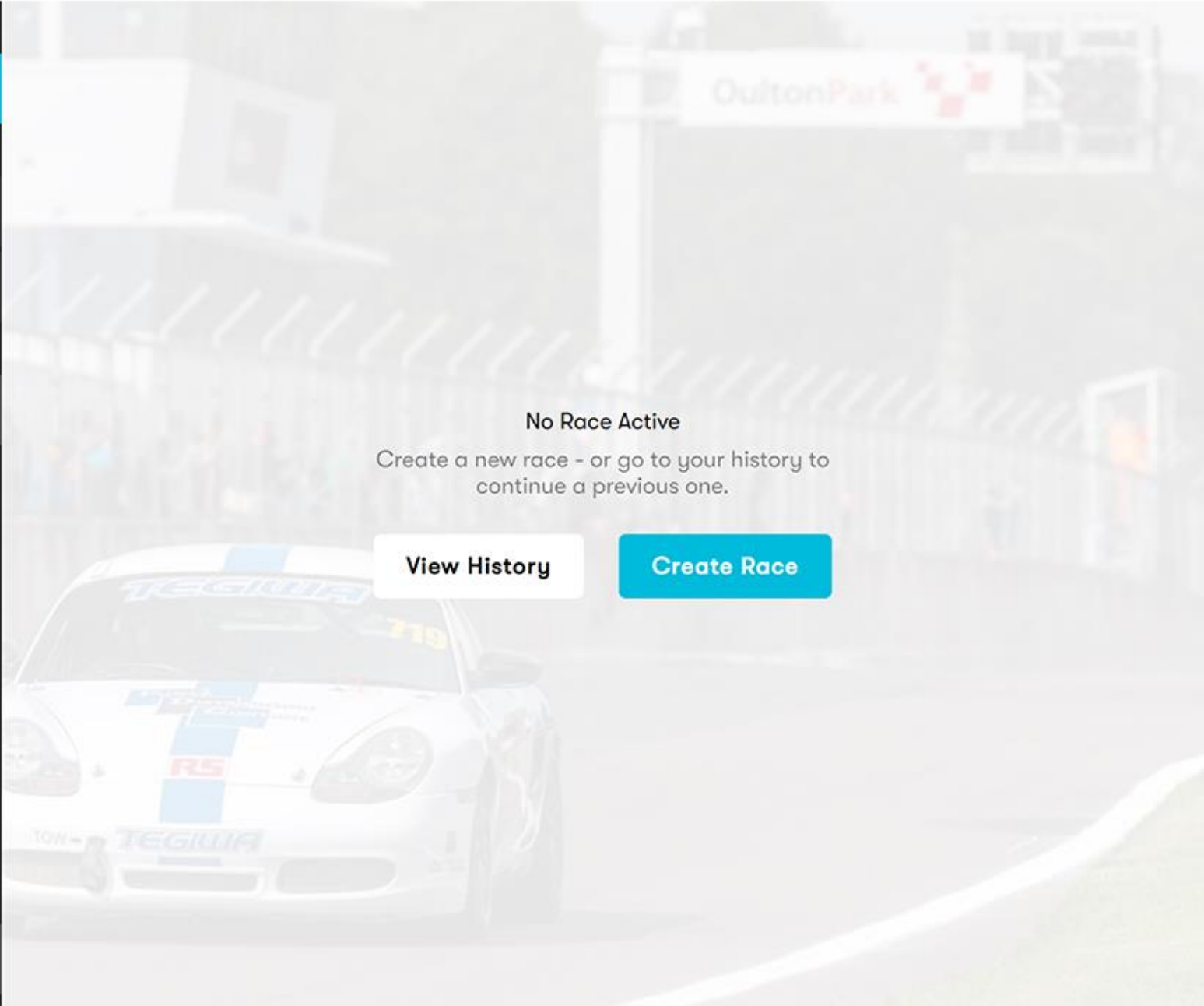
Manage Teams

OTHER

Race History

SETTINGS

Sign Out



Location:

<https://imaginexracer.com/t/dashboard/overview> **Description:**

- When a teacher has a race selected, they get shown a dashboard of options
- This is where they will be for the most part – at this point they are waiting for students to join in using the code that is in the top right.
- This green box with the race code will always show for the teachers when they are in an active race.

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Race Code

ITEM-MODE

CURRENT RACE

Dashboard

Manage Teams

OTHER

Race History

SETTINGS

Leave Race

Sign Out

There is no one in the race - join with code:
ITEM-MODE

Waiting for teams to join...



Location:
<https://imaginexracer.com/t/dashboard/overview>
Description:

- When users start to complete tasks, join, complete work etc the teacher can see these update in real-time (they don't need to refresh the page)
- This gives them a quick overview of what is going on, and where students may be stuck or need help.

CURRENT RACE

Dashboard

Manage Teams

OTHER


Race History

SETTINGS

Leave Race


Sign Out


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Race Code
RACE-BOND

There are 2 team(s) that are in the race.
RACE-BOND

RS Components

PDC Racing

View All Teams

City Race

Status

Ready to race!

Cars Created2/2

Questionnaires Completed2/2

Practice Laps Completed2/2

Start Race

PDC Track

Status

Waiting for teams...

Cars Created1/2

Questionnaires Completed0/2

Practice Laps Completed0/2

Waiting...

Location:
<https://imaginexracer.com/t/dashboard/teams>

- Description:**
- Teachers can also manage teams from this sub-menu
 - If they want to kick users out, manage or modify team they can do so from here
 - This may be because a student has entered an unreasonable name, students have joined who should not have etc.

CURRENT RACE

Dashboard

Manage Teams

OTHER

Race History

SETTINGS

Leave Race

Sign Out

Team Haydn	Colours 	Track 1 Not Started	Track 2 Not Started	
Team Team	Colours 	Track 1 Not Started	Track 2 Not Started	



Location:
<https://imaginexracer.com/t/dashboard/history>

Description:

- Teachers can also view the history of all their races, the means they can quickly switch between and continue old lessons if need be

CURRENT RACE

Dashboard

Manage Teams

OTHER


Race History

SETTINGS





Leave Race


Sign Out

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Race Code
RACE-BOND

DATE 19/10/2020	CODE ITEM-MODE	TEAMS 0	TRACKS 2		
DATE 19/10/2020	CODE RACE-BOND	TEAMS 2	TRACKS 2		



Location:
<https://imaginexracer.com/t/race>

- Description:**
- When a teacher decides to do a group race, they are then brought to this page.
 - They can see which students have loaded into the race on their own devices
 - Once every student is in, the can then start the race – this shows on their screen, as well as having a stripped-down view for the students on their own devices.

(the race art is subject to change however the functionality is not)

Track

ImagineX Circuit

Teams

3 / 3

ImagineX Racing

RS Components

PDC Racing

Waiting for teams to ready up...

Location:
<https://imaginexracer.com/t/race>

Description:

- During a race everything is automated.
- The cars will do their laps, and the camera will pan around to try and show relevant actions such as takeovers, corners etc.

This does try to balance to show all students cars.

(the race art is subject to change however the functionality is not)



Location:
<https://imaginexracer.com/t/dashboard/overview>

- Description:**
- Teachers are then navigated back to the overview where they will see a little but more information from the race that just happened.
 - This marks the end of the first track and is repeated for each track that is in the current group.
 - The teacher can do the races as much as they want, there is no “finished” state as per say, but a teacher could assume that once they have complete all the group races that the game can be concluded
 - The reason for no specific end-state is so students / teachers can potentially revisit the game later and continue.

CURRENT RACE

Dashboard

Manage Teams

OTHER


Race History

SETTINGS

Leave Race

Sign Out


IMAGINEX RACER




Race Code
RACE-BOND

There are 2 team(s) that are in the race.
RACE-BOND

RS Components



PDC Racing



View All Teams

City Race ✓

Status
Complete

Winner
PDC Racing

Time
1m 20s

Start Race

PDC Track

Status
Waiting for teams...

Cars Created
1/2

Questionnaires Completed
0/2

Practice Laps Completed
0/2

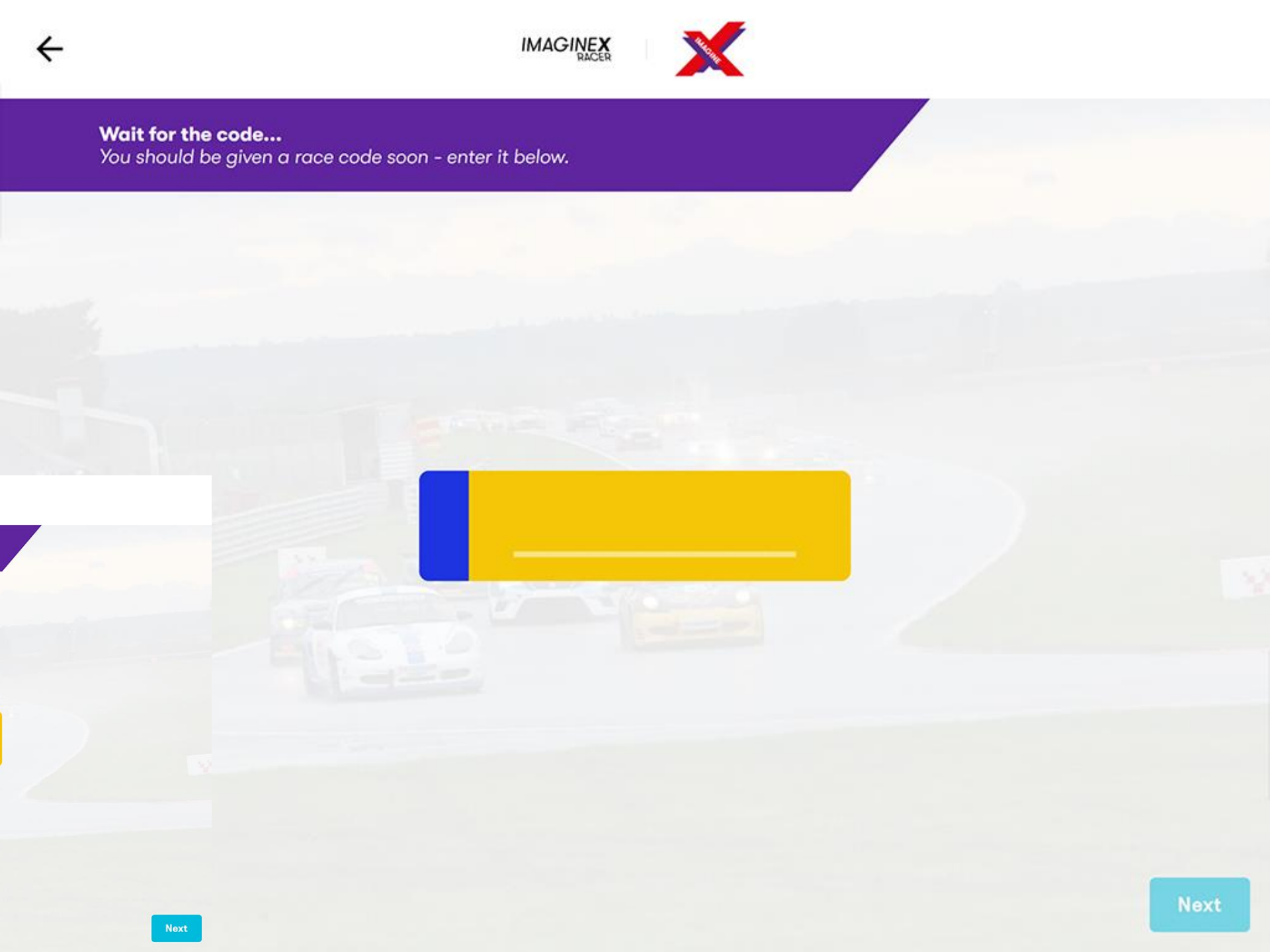
Waiting...

User Journey - Student

Location:
<https://imaginexracer.com/s/join>

Description:

- Students get a stripped back login page that only asks for the Code that a teacher will provide for them.



Location:
<https://imaginexracer.com/s/create-team>

Description:

- Once. The student has. Joined, they must first provide a team name as well as select a primary & secondary colour.



Team Setup
Get started by giving your team a name and some colours.



Team Setup
Get started by giving your team a name and some colours.

Team Name

My Race Team

Primary Colour

Secondary Colour

Next

Next

<https://imaginexracer.com/s/dashboard>

Description:

- Students are then provided a dashboard like the teachers, but different in a few ways.
- In the top right is a card that shows the basic info, this can be helpful for a teacher to see which team is logged in if the need help
- Students will have the first track automatically selected – from here they can see an overview of the track details and what tasks must be complete



ImagineX Circuit

ImagineX Circuit (WET)

Exit

ImagineX Circuit

Length	Type	Budget
Regular	Race Circuit	£25,000

Description
This is a fairly typical circuit with a mix of straights and light corners.

Dry

Sunny

Flat

1. Create car

2. Questionnaire

3. Time trial

+

Team Name

Overall Cost

Weight

Power

Durability

Grip

Acceleration

Questionnaire

Incomplete

Questions

Percentage

Time Trial

Incomplete

Best Time

Group Race

Incomplete

Position

Best Time

Pitstop Questions

Create a Car

Location:

<https://imaginexracer.com/s/dashboard>

Description:

- The first task a student needs to do is create a car. This can be done by either clicking the task, the associated button in the bottom right, or the empty car showcase
- The modal shown has the overall budget, as well as tabs that go through each important aspect of the car that needs to be chosen.
- Students can tab between these as they are creating their car, when they press finish this is when the car spec is locked in. This can be edited at any point by pressing the edit button that shows once an initial car is created.

Create a Car

Tyres ☒

Engine ☒

Body ☒

Gears ☐

Suspension ☐

<

—

Stripped Chasis

£5,000

≡

Regular Chasis

£7,500

≡

Heavy Chasis

£8,000

>

Budget

£13,000 / £25,000

Next

Location:
<https://imaginexracer.com/s/dashboard>

- Description:
- The next step is to complete the questionnaire for this track
 - This reinforces learning and, if completed well, will give the students a slight performance increase in the time trail race they will do next.
 - This simply shows a modal with the multiple-choice answers.
 - They are scored overall with a percentage at the end
 - They can do this questionnaire multiple times, however they are not told which answers they got wrong – just the overall.
 - Teachers can see which questions were wrong from their dashboard in order to help if need be.

RACES


ImagineX Circuit


ImagineX Circuit (WET)

SETTINGS

Exit

IMAGINEX
RACER



My Race Team 

ImagineX Circuit

Length

Regular

Type

Race Circuit

Budget

£25,000

Description

This is a fairly typical circuit with a mix of straights and light corners.

Dry


Sunny

Flat

1. Create car ✓

2. Questionnaire

3. Time trial



Team Name

My Race Team

Overall Cost

£23,000

Weight

15

Power

12

Durability

11.5

Grip

10

Acceleration

9.5

Questionnaire

Incomplete

Questions

Percentage

-

-

Time Trial

Incomplete

Best Time

-

Group Race

Incomplete

Position

Best Time

Pitstop Questions

-

-

-

Start Questionnaire

Location:
<https://imaginexracer.com/s/dashboard>

- Description:
- Questionnaires have 10 questions for the students to answer
 - These effect where they end up on the starting grid during the big race
 - They only get once chance for the questionnaire per race
 - They are shown if their answer was correct or not, but not shown the value of the other answers

Questionnaire

1) What type of energy does the engine produce?

Chemical

Chaotic

Kinetic

Next

Questionnaire

1) What type of energy does the engine produce?

Chemical

Chaotic

Kinetic

Next

Questionnaire

5) Which force would slow a moving object?

Torque

Gravity

Drag

Next

Location:
<https://imaginexracer.com/s/race-practice>

- Description:
- When students have completed the last two steps, they can start their practice lap.
 - This brings them onto the race screen which is fully automated.
 - Their car will complete 2 laps in order to give them an estimate of how optimized their car is for the track.
 - Once complete they are navigated back to the overview
 - Finishing an initial practice will mark that race as complete for the teacher – once all students have finished a practice lap on a track, the teacher is then able to do a group race.

RACES


ImagineX Circuit


ImagineX Circuit (WET)

SETTINGS

Exit

IMAGINEX
RACER



My Race Team 

ImagineX Circuit

Length

Regular

Description

Type

Race Circuit

This is a fairly typical circuit with a mix of straights and light corners.

Budget

£25,000

Dry


Sunny

Flat

1. Create car ✓

2. Questionnaire ✓

3. Time trial



Team Name

My Race Team

Overall Cost

£23,000

Weight

15

Power

12

Durability

11.5

Grip

10

Acceleration

9.5

Questionnaire

Complete

Questions

5/9

Percentage

56%

Time Trial

Incomplete

Best Time

-

Group Race

Incomplete

Position

-

Best Time

-

Pitstop Questions

-

Start Test Lap

Location:
<https://imaginexracer.com/s/dashboard>

- Description:
- When a teacher starts a group race all students are presented with a short questionnaire.
 - This must be completed and will effect where they show up on the starting grid.
 - The teacher will be able to see each student's status of this on their screen when they are waiting for students to join in.

RACES

PDC Track

Silverstone - Dev

SETTINGS

Exit

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My Race Team

You have completed all the tasks on this track. ✓

PDC Track

Length

Regular

Type

Rally Race

Budget

£25000

Description

This track is currently under development and needs artwork.

Wet

Sunny

Rough

1. Create car ✓

2. Questionnaire ✓

3. Time trial ✓

Edit Car

Team Name

My Race Team

Cost

£27500

Track Time

1m 20s

Weight

15

Grip

10

Power

12

Acceleration

9.5

Durability

11.5

Questionnaire

Complete

Questions

8/10

Percentage

80%

Time Trial

Complete

Best Time

1m 20s

Group Race

Complete

Position

2/2

Best Time

1m 20s

Pitstop Questions

5/5

Start Test Lap