

Greenpower Education Trust

## Portfolio Guide IET Formula Goblin



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# Your Greenpower Portfolio

## Guide for IET Formula Goblin

### Why make a portfolio?

- You can use this to show everyone what you have learnt
- You can use your portfolio to gain your Industrial Cadets award
- All portfolios gain points for the team on race day
- The best portfolio receives an award from Greenpower

### What is a portfolio?

A portfolio is simply a way for your team to show off everything that you have learnt throughout your time on the Greenpower project. It is a record of your Greenpower journey and will explain how you designed, built, and raced your car. If you haven't raced yet, you can explain what you want to achieve when racing.

### How do I show what I've done?

You can show all of your hard work throughout this project in your portfolio in lots of different ways. Keep a record as you go so you remember everything that happened during the build.

Photos

Did you have to solve any problems during the project? Did you work as a team? Greenpower would love to see photos that show engineers hard at work, whether they show your team designing, building, racing or even fundraising.

Certificates & Awards

Did you win any awards from school for your commitment to the project? Maybe you were lucky enough to win an award at a previous race day. Make sure you include it, and explain why you won it!

Videos

A video can be a good way of showing your achievements. Ask your teacher to help you with this and make sure you have permission before uploading anything.

Written Work

You can include diary entries, create a poster or even write a news article telling the world how you tackled this project.

Testimonials

Did anyone you worked with comment on the brilliant work you had done? Maybe it was a parent, friend or teacher. Be sure to include their thoughts too.

Solid Edge Software

We hope you used the 3D Solid Edge CAD viewer models when working on your car. Maybe include a photo of your team using the software. You can download the software [here](#).

## How do I get my Industrial Cadets award?

If you can show that you have spent 20 hours on this project then you can earn your Bronze Industrial Cadets award! The table below can be used as a log book that you can fill in as you go, this way you can double check that you have completed all the necessary tasks. Your portfolio can then be used as evidence so that you can earn this award. Find out about registering for the award by emailing: [info@greenpower.co.uk](mailto:info@greenpower.co.uk)



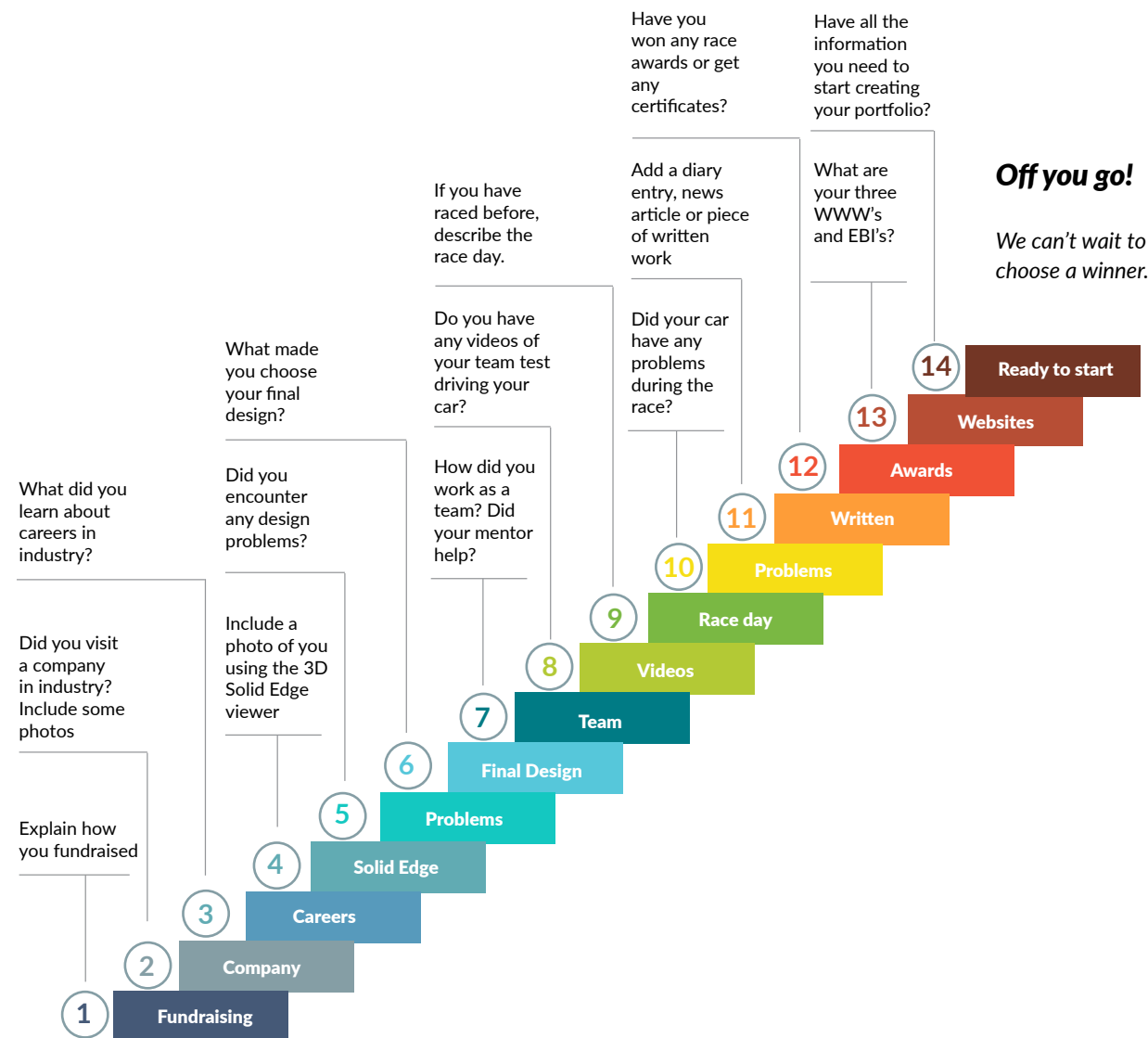
Task	Skills this task will develop	How long do I spend on this?	How can I do this?	Date and time spent
Company and sector research	Digital skills	2 hours	Complete some research into a role in industry that you would like to do when you are older.	
Company visits	Careers awareness	2 hours	Visit a local company where they make products for industry, for example a car manufacturing plant	
Company activities	Problem solving	2 hours	Whilst on your trip to the company you need to show resilience and complete the activities they set	
Hands on activities	Creativity and collaboration	12 hours	Throughout the Greenpower project you will have needed to work with both your mentor and your team. You will have shown creativity when you designed your car and found solutions to design faults	
Present your outcomes	Communication	2 hours	Create a presentation to show your teacher your completed project	

## Links to my learning?

We are sure that you are going to learn so much throughout the Greenpower project and you will soon be expert engineers. This project will help you learn about forces, aerodynamics, properties of materials, and the relationship between mass and acceleration. You will also develop your IT skills using the Solid Edge 3D viewer software and of course you will have to use your design skills when building your car. Now you can really show off in your Science, IT, Maths and DT lessons by telling your classmates all of the things that you have learnt. Make sure you include your learning in the portfolio.

## Portfolio steps to success

If you don't know where to start when creating your portfolio then use the steps below to help. If you manage to include all these steps then we are sure you will have a great portfolio.



## Submitting your Portfolio

If you're entering for the Industrial Cadets award, you'll get more information when you register – contact [info@greenpower.co.uk](mailto:info@greenpower.co.uk) to find out more.

If you are entering your portfolio for the portfolio award at an event, simply bring it with you on race day and take it to Race Administration when you sign in. It will then be judged during the day by our independent judging team. They'll ask you if they have any questions or want to find out more.

To download the Solid Edge for FREE and CAD models of the F24 kit car visit [https://www.plm.automation.siemens.com/en\\_gb/academic/projects-competitions/greenpower.shtml](https://www.plm.automation.siemens.com/en_gb/academic/projects-competitions/greenpower.shtml)

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