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Exploring the design context

- Use the start of this concept map to explore possible areas for your project. As a group discuss and decide which area your team will focus on.
- INEOS TEAM UK believe their influence should extend far beyond the race course, and have put sustainability at the heart of operations.
- All projects that you design must be sustainable.

Boat Control

Sir Ben Ainslie is always looking for innovation when it comes to the control of the boat.

Trophy Design

Awarding trophies is part of the competitive element of the team.

Promotional Material

INEOS TEAM UK is always looking to promote their sustainability agenda to schools visiting the Tech Deck.

Technical Crew Clothing

The wetsuits worn by the sailors are highly technical.

INEOS TEAM UK are looking for your help to design a new product that will enhance the performance, or raise the profile of the team.

Hospitality

Meeting spaces at INEOS TEAM UK should impress and reflect the team's image.

Reusable Water Bottle

Single-use water bottles are discouraged at INEOS TEAM UK.

Retail Clothing

Clothing that promotes the team's image is sold to the general public as merchandise.



KEY TERMSConcept map



stemcrew.org





Your design brief

Using your team's chosen area from the concept map, work together to create a unique design brief.



DESIGN FIXATION and the language you use

CREATE

If you focus on a product idea, rather than the problem you are trying to solve, your brief may not be suitable. E.g. 'Design a new boat steering wheel' locks you into a fixed idea, whereas 'Design a method to control the movement of the boat' opens up more possibilities.

Write your initial brief here:	
Questions to consider	
Who will your primary user be?	
What are their main requirements?	
Who are your other stakeholders?	
What are their main requirements?	
Investigation Design thinking Communication Prototype Analysis	KEY TERMSStakeholders • Primary user

EVALUATE

Design fixation

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EXPLORE



Your design brief

Using your team's chosen area from the concept map, work together to create a unique design brief.

Write the final version of your design brief here:

Review

Before you finish, can you answer 'yes' to all of these questions?

- Is your brief challenging?
- Is it relevant to the context?
- Does it identify the primary user?
- Does it consider any other stakeholders?





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D&T Contextual Challenge Student Workbook CREATE MI T Investigation **Design thinking** Communication **Prototype** Analysis EVALUATE **EXPLORE** CREATE



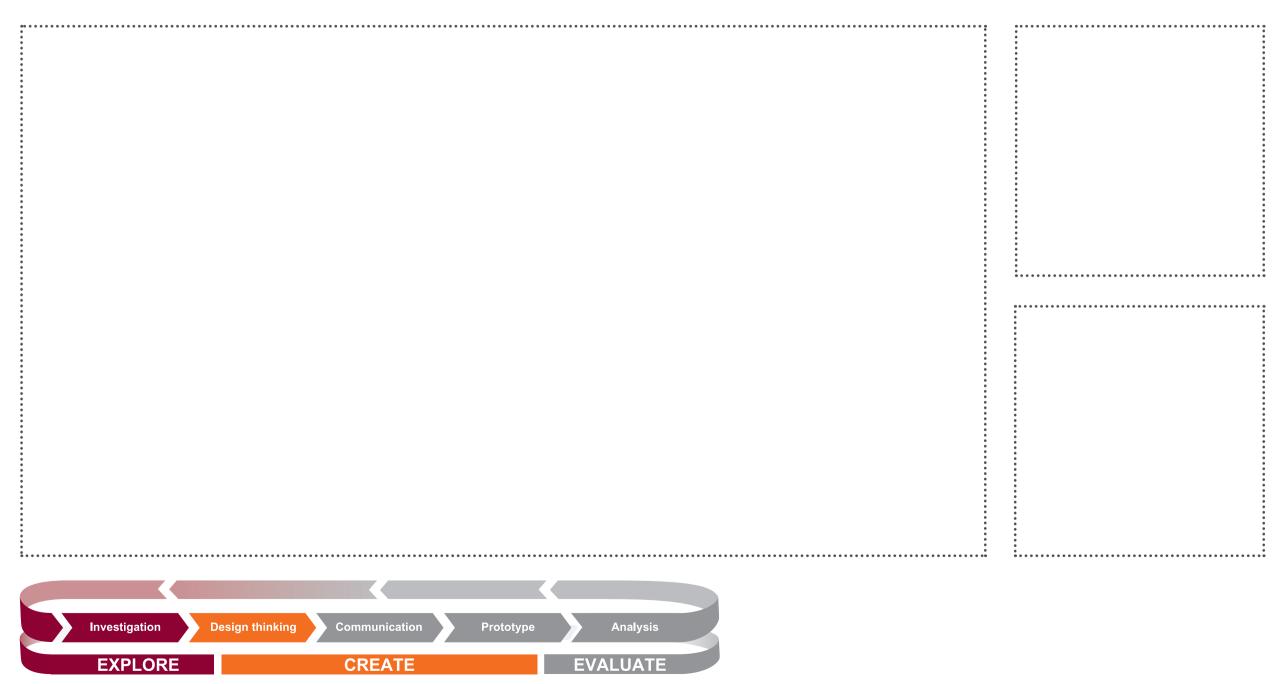
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Collaborative ideas

Using the space below, each member of your team should produce as many ideas as they can that satisfies your brief. You could use post-its or just write straight into the boxes. Don't worry about presentation – the focus is on generating ideas.

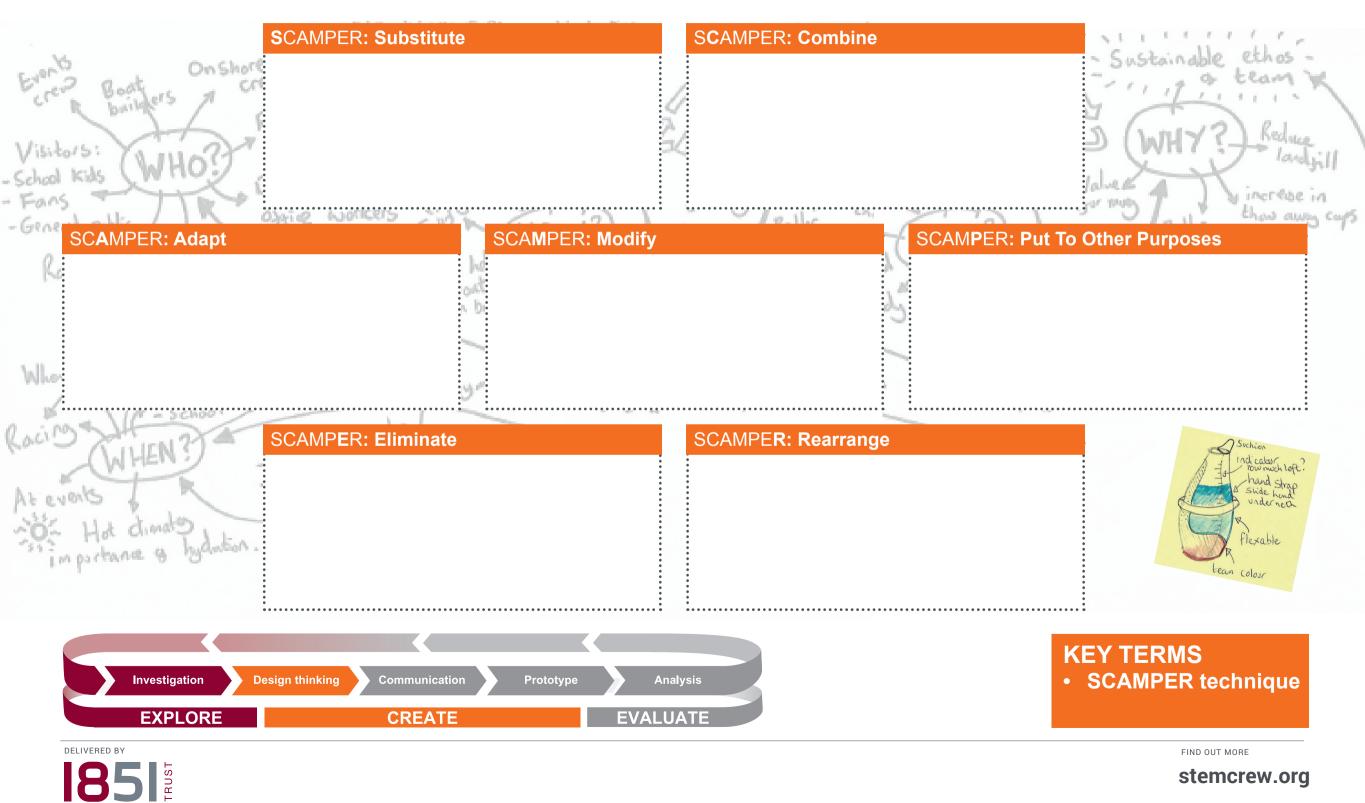
Best ideas







Use the SCAMPER technique to develop and focus your best ideas.





Research

As your team continues to develop your best idea, always consider the primary user and stakeholder's requirements. If you don't know something then you may need to do some research.

Ask your teacher if you would like more information on specifications used by INEOS TEAM UK, including:

- Race clothing specification
- Steering controls specification
- Plans and photos of hospitality areas
- Branding guidelines
- Trophies
- Sustainability ethos (this should be at the heart of your design)

You can use the space below to add any other areas you might want to research.







Sketch modelling/prototyping

- Use the next few pages to develop your design.
- Sketch, model and prototype if it is helpful to the team to do so.
- You could also choose to design in CAD.





KEY TERMS

- Sketch modelling
- Prototypes

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Sketching/sketch modelling/prototyping







Sketching/sketch modelling/prototyping







Sketching/sketch modelling/prototyping

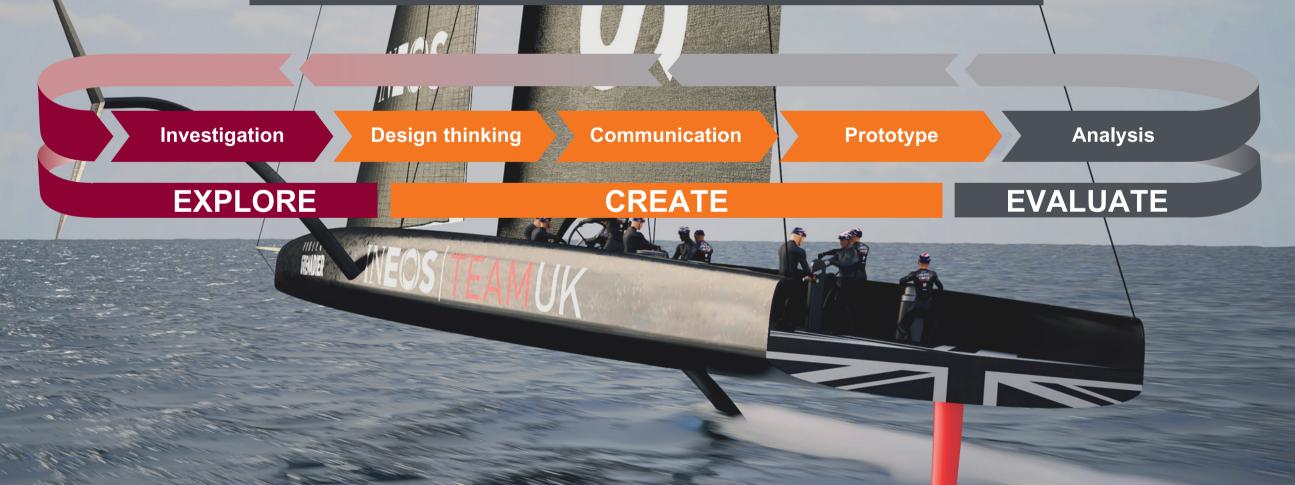






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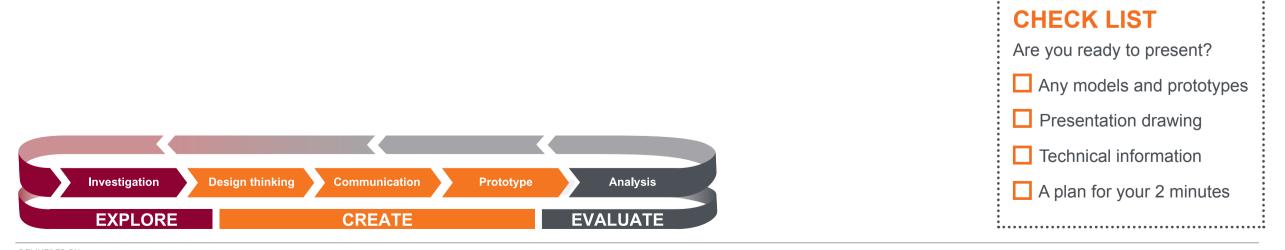


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Presenting your design

Plan out your presentation here.







Design presentation drawing

It can be useful to show several views of your project to help the INEOS TEAM UK designers understand the idea.



