**What does it take to win the America’s Cup - the world’s oldest sporting trophy?**

**Task**

Your task is to answer the Big Question above using a wide range of information.

You may find the information available in STEM Crew’s digital resources helpful. These resources are all inspired by INEOS TEAM UK, the British challenger for sailing’s America’s Cup.

**Not heard of the America’s Cup before?**

Find out more about the America’s Cup, the formula 1 of sailing and the amazing 60mph sailing boats that race for the Cup by watching: [INEOS TEAM UK's challenge for the America's Cup](INEOS%20TEAM%20UK%27s%20challenge%20for%20the%20America%27s%20Cup)

[INEOS TEAM UK's challenge for the America's Cup](INEOS%20TEAM%20UK%27s%20challenge%20for%20the%20America%27s%20Cup) and having a look at the information and videos on [www.stemcrew.org](http://www.stemcrew.org)

**How to begin**

1. Use the mind map sheet to plan how you will answer the Big Question
2. Watch the videos listed below and make notes about what you have learned
3. Communicate your learning by choosing your preferred presentation method

There is no single correct answer to the question. Answering the question involves research and independent learning in order to be able to present your findings to your teacher and class. You can also use information from other sources to help answer the question.

This investigation is an extended project and you should aim to spend 5-8 hours on it. Keep your **project log** up to date to make a note of all your hard work!

**Videos**

The following videos will help you answer the Big Question.

<https://www.stemcrew.org/resources/materials-and-their-uses/>

<https://www.stemcrew.org/resources/mechanisms/>

<https://www.stemcrew.org/resources/dt-contextual-challenge/>

<https://www.stemcrew.org/resources/meet-the-team/>

<https://www.youtube.com/watch?v=bz5lekHXOk4> (INEOS TEAM UK shortfilm)

<https://www.youtube.com/watch?v=eXDLKv13xHw> (INEOS TEAM UK shortfilm)

**Presenting your work**

Here at STEM Crew HQ we have a focus on **creativity.** So why not be creative with how you present your project? Here are some ideas to get you started;

* Create a vlog
* Use green screen app to virtually put yourself at the INEOS TEAM UK Base or on the boat itself
* Produce a Prezi <https://prezi.com/>
* Keep it formal and produce slides using PowerPoint
* Really impress your teachers and use the ExplainEverything app <https://explaineverything.com/download/>

**Mind Mapping**

Focus the question to a more specific point – for example, is it the sailors, the engineers, luck or a combination of factors that your research proves to influence who wins the America’s Cup the greatest?

Why have you come to this conclusion? Back up your opinions with evidence.

What does it take to win the America’s Cup?

Decide how you want to present your project. There are some ideas listed above to provide inspiration, but do not feel like you are limited to these. Be as creative as you can!

How can the team draw from previous experiences to influence this America’s Cup? Which members of the team have raced and won the America’s Cup before?

Which personal attributes are important for which team members and why? Do all team members need the same qualities?

What is the end goal of INEOS TEAM UK? Why might we want to win the America’s Cup? How might this influence what we do?

What are the key parts of the boat that the engineers will look at? Would improvements on every part of the boat give equal upgrades in performance?

Would all the engineers do the same job? What specialists might be needed?

**Project Log**

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| Date | Research and investigation completed: | Time taken |
| **23.3.20** | **Watched video and made notes about history of America’s Cup** | **30 mins** |
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**Other information used**

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