



Submission Template  
2023/24

**STEM STARS**  
SCIENCE  
TECHNOLOGY  
ENGINEERING  
MATHS

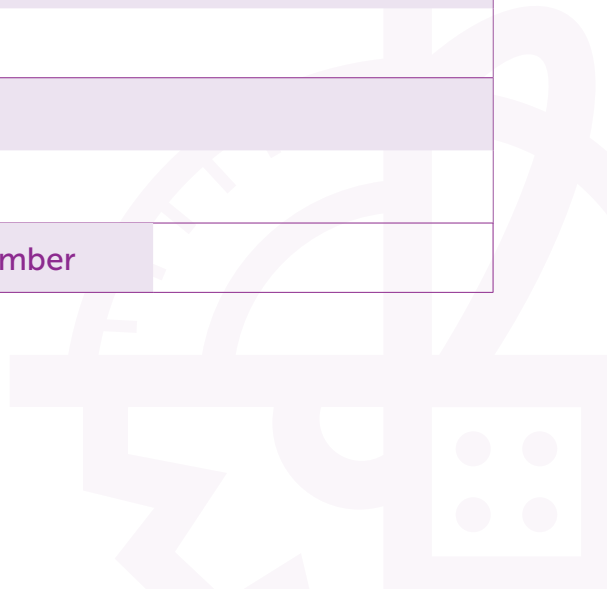
# School Details

\*Max of 8 students per team

Student Name	School Year

School Name	
School Address	
County	Eircode

Project Name	
Teacher's Name	
Email Address	Phone Number




# Project Introduction

## POINTERS

- What inspired this project? Is it a personal interest or something that affects your family or community?
- If there were other ideas, why did you choose this one? What is the justification for your choice? Is it novel, is it improving an existing solution or something else?

\*Up to 1000 words




# Scope & Project Plan

Defining your scope helps set boundaries, goals and deadlines without delay or overwork.

## POINTERS

- How do you see this idea being applied to the medical device industry or areas of healthcare? Defining your project scope isn't a one-person job. You should align with important stakeholders and ensure the team is all on the same page. What do you hope to achieve at the end of the project?
- Work Plan: What is your project plan.eg. interviews, data analysis, writing code, 3-d print components, build a prototype, do user research etc.
- Define your problem statement or challenge.

\*Up to 1000 words



# Research & Development

You've identified your problem statement, its now time for research and development.

## POINTERS

### Knowledge Gathering

- Reference your reading materials
- Did you complete surveys, what was the sample size?
- Did you conduct interviews with any subject matter experts?
- Is there anything similar to your idea already available?
- Will you use quantitative (numbers & statistics) or qualitative (words & meanings) methods?
- Consider interviewing medical experts or teachers in your school.
- Any claims made in the video or project submission should be referenced in this section.

### Evolution of the project

- What was your starting hypothesis?
- Were there many iterations?
- Were there any failures?
- Aim for clear visualisation of your process
- Graphs, flowcharts, wireframes, illustrations or similar that demonstrate the development of your idea

# Research & Development

Supplementary files that support your research & development can be submitted with the completed submission template.

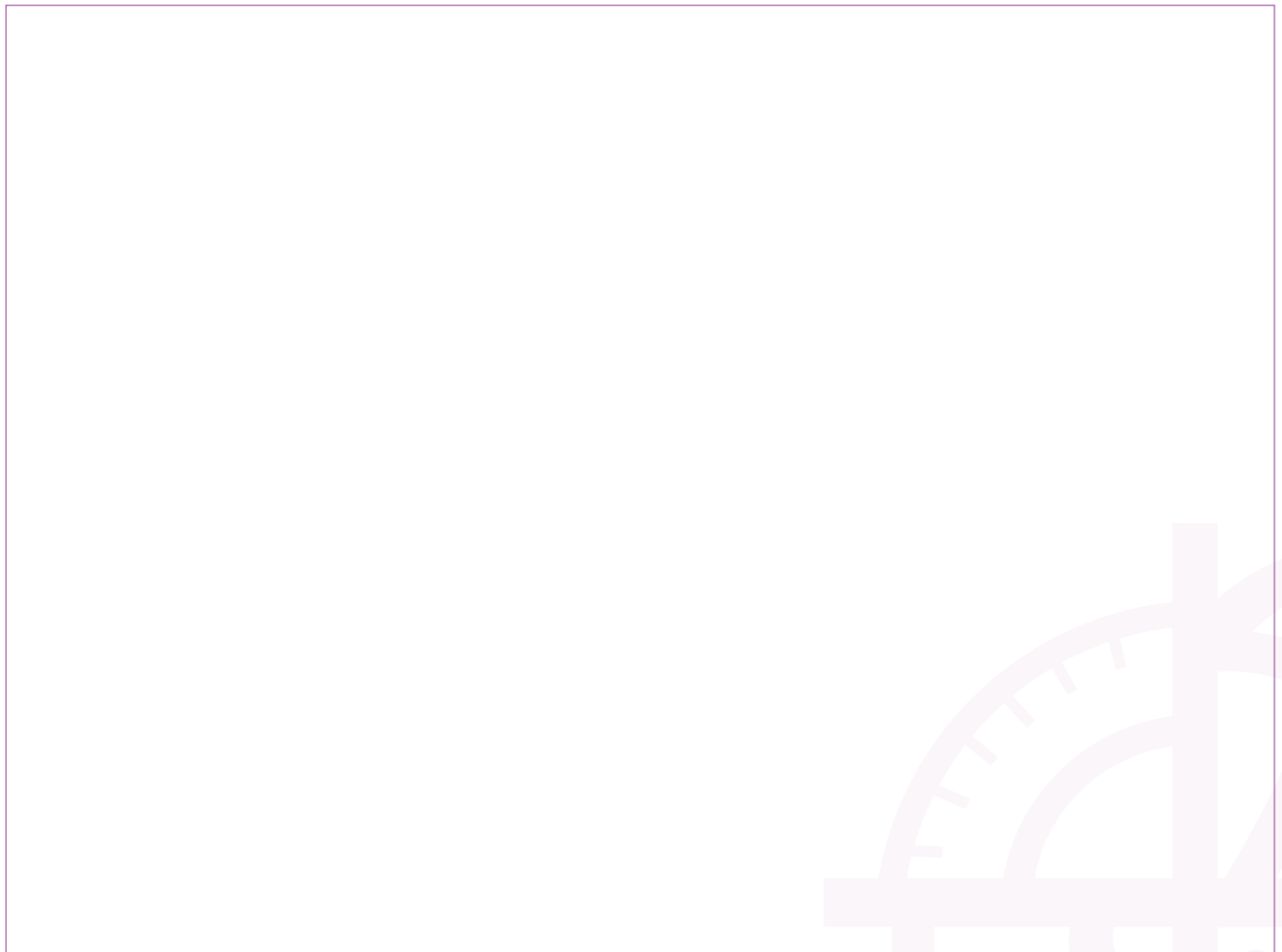
\*No word limit

# Results & Conclusions

## POINTERS

- Did you complete what you set out to do in the project plan?
- Appropriate analysis and clear visualization of the results
- Would you do anything differently if starting again? What further steps could be taken to develop your project?
- What is the overall conclusion?
- Any relevant information not included in the video

\*No word limit



# Video Submission

Your video presentation should tell your story from inspiration to completion and should be balanced with the right amount of information.

This is a guide outlining the video requirements for your BD STEM Stars project:

<b>Video Length</b>	The video should not exceed 5 minutes in length and the key aspects of your projects should be covered within this time frame. Exceeding the allotted time will incur marking penalties.
<b>Content</b>	Choosing which approach suits your needs best, focus on either demonstrating your solution to the suggested issue or provide details and descriptions that guide the audience on your project journey.
<b>Audio-Visual</b>	Use a high-quality microphone if possible and ensure sound levels are consistent across the video presentation. Recording on a new Android or iPhone can produce good results as they tend to have good cameras. Also, a simple tripod goes a long way in recording the video to ensure the clips are steady.
<b>Video Format</b>	Videos should be submitted using a commonly used video format such as MP4, AVI or MOV.
<b>Communication</b>	Endeavour for clear communication, succinct points and consider amplifying your message using charts, photos, graphs or your prototype in action if you have one. Your video should have a logical story with a conclusion that looks to the future.

## Additional Extras

These may help towards the communication of your project to the judging panel either on the day or in the submission.	<ul style="list-style-type: none"><li>✓ Posters</li><li>✓ Research reference list - obligatory</li><li>✓ Gantt chart/ Timeline</li><li>✓ Wireframes / flowcharts/ illustrations</li></ul>
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# Checklist

 **Completed submission template** School Details Project Introduction Scope & Project Plan Research & Development Results & Conclusions **Supplementary information** **Video (5 mins max) in appropriate file format**