

Submission Template

**STEM STARS**

SCIENCE  
TECHNOLOGY  
ENGINEERING  
MATHS

# Category

What category is this project being submitted to?

Product

Software

\*Max of 8 students per team

Student Name	School Year

School Name	School Address
County	Eircode

Project Name	
Teacher's Name	Insert Primary Contact if other
Email Address	Phone Number

Are there other submissions from your school? Yes  No

Is this the first year your school has submitted a project? Yes  No

Has this project previously won in any national or international STEM competitions? Yes  No

# Project Introduction

All projects should complete this section.

## 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.

## 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.

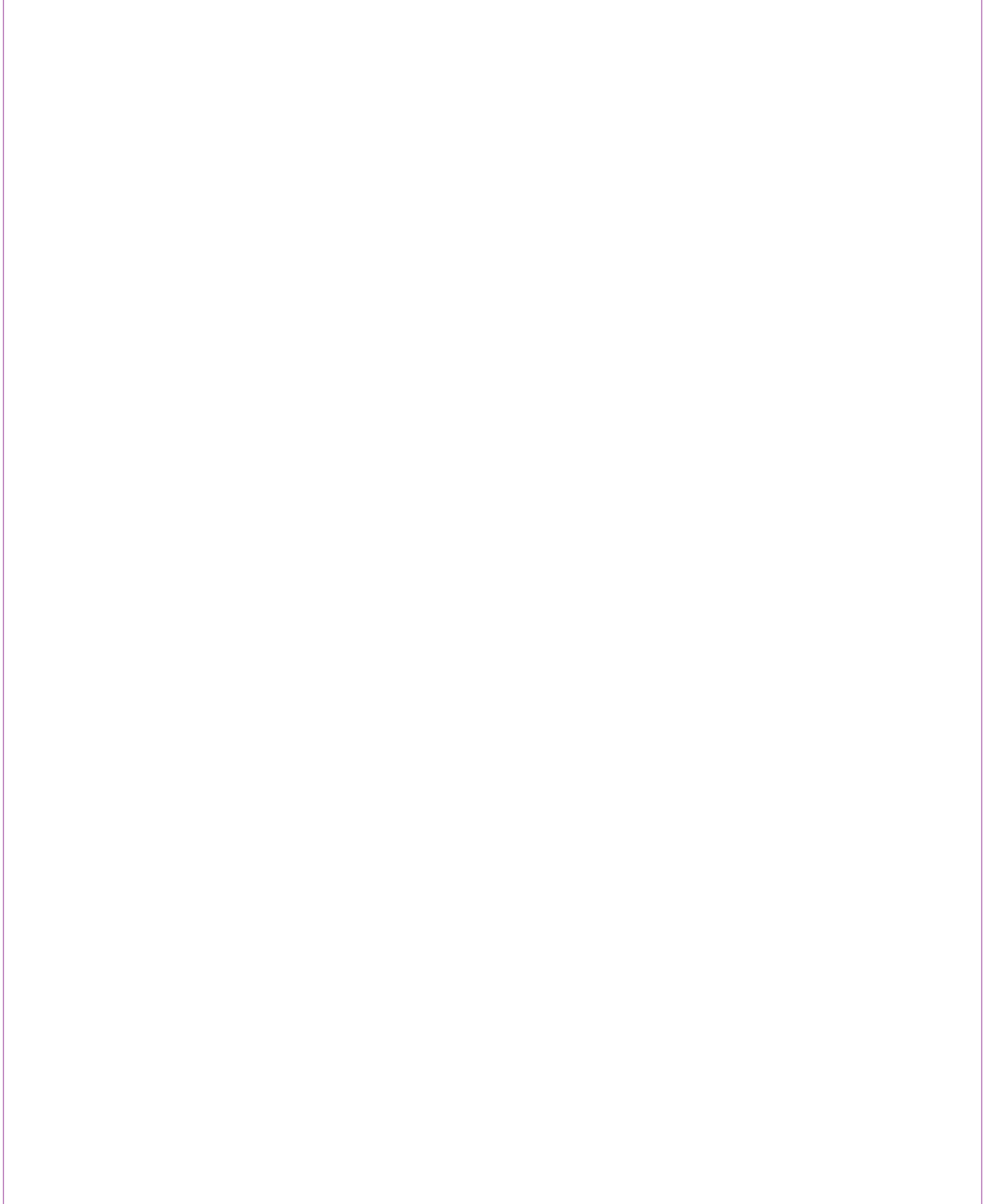
### Evolution of the project

- 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

\*Up to 1000 words

Reference List

\*No word limit

# Checklist for Software & Product submissions

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

# 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>✓ Gantt chart/ Timeline</li><li>✓ Wireframes / flowcharts/ illustrations</li></ul>
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