



# The All About STEM Competition Guidelines

## The First Rule

The first rule about The Competition is... **do** talk about The Competition! To Everyone! Spread the word, share the love, get everyone involved!

## Competition Brief

Who knew, in March 2020, what challenges lay ahead for us as individuals, as a country and as a global community? Since then, the world, our values, the way we live, work and communicate have changed and we have all had to adapt and find new ways of doing things.

This can feel unsettling – change can be difficult to manage – but it is also an exciting opportunity to use our STEM Knowledge and skills to be creative, to reimagine, and to make our lives, our communities, our world, better.

## What would you change?

### And how would you *Make It Happen*?

Working by yourself, with your friends, youth group, STEM Club or classmates, get your thinking hats on and use your STEM knowledge and skills to develop a new product, item, idea or approach which solves a problem facing our world or the people in it.

## Project Ideas

Projects can be based on the young people's own ideas, starting completely from scratch, letting their imaginations go wild!

Or you could use one of our **partner resources** (see the Competition website for details), or project ideas from other organisations or programmes, to stimulate ideas.

Or you could get involved with one of our **supported options** (see the Competition website for details) and submit the work young people develop as part of those activities as their Competition entry.

## Geography

The Competition is only open to young people from the North West; the counties of Cumbria, Lancashire, Merseyside, Greater Manchester and Cheshire.

## Age Groups

Entries are open to three age groups:

**Juniors (Primary UKS2, Y5-6, Age 9-11)**

**Inters (Secondary KS3, Y7-9 Age 11-14)**

**Seniors (Secondary KS4, Y10-11, Age 14-16)**

Mixed age Team entries are acceptable but must be submitted in the age category of the oldest team member.

## Entry Types (Individual / Team)

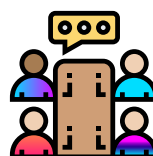
Entry is open to Individuals or Teams. The maximum number of team members is limited to 5.

Entries are welcomed from all contexts; individuals, school groups (from curricular or enrichment settings), youth groups, etc.

N.B. Entry Form must be completed by an adult over the age of 18 (parent, guardian, teacher, youth leader etc).

## Minimising Submission Administration

To minimise submission administration for teachers / youth leaders, schools / youth groups are encouraged to run their own internal competition and to submit only (a selection of) their age group and special award winners. Young people whose projects are not selected for submission would still be eligible to submit their entries independently should they so wish.



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## Submission Requirements

Entry submission consists of **2 compulsory requirements**:

- **A completed Competition Entry Form –**  
This should be used to provide a narrative description of the project, from concept to completion, outlining the various activities which contributed to the project and may include research, practical activities, input from adults, resources used etc. (Either digital versions or handwritten and scanned versions accepted)
- **A Display Board Poster –**  
This should be used to provide a visual illustration of the various elements of the project, including research findings, investigation results etc as well as the final product/idea and should effectively summarise the project in an engaging and accessible way. (Minimum size A4. Maximum size A1. Either a digital document or a photograph of physical version accepted)

In addition, two possible pieces of **optional** supplementary evidence can be submitted if desired:

- Up to 5 PowerPoint slides
- A video no more than 5 minutes long (this can be sent as a file or by providing a link on the Competition Entry Form)

N.B. Submission of optional supplementary material will not necessarily provide an advantage.

## Entry Submission

N.B. Submission must be completed by an adult over the age of 18 (parent, guardian, teacher, youth leader etc).

Entries must be emailed to [competition@allaboutstem.co.uk](mailto:competition@allaboutstem.co.uk).

Subject Line should read 'Competition Entry: School, Organisation or Individual Name – Age Category'

Attach to the email, as a minimum, a Competition Entry Form and a Display Board Poster.

## Submission Deadline

**5pm on Friday 27th May 2022**

## Competition Winners

A single top prize will be awarded for the Best of the Best – one overall winner from across all three age groups.

A separate winner and runner up will be selected for each of the three age groups, Juniors, Inters and Seniors.

Other entries may be awarded Special Commendation.

## Special Awards

In addition, there are Special Awards available for particular categories. If entrants wish to be considered for a Special Award, they should self-nominate on the Competition Entry Form, ensuring that the content of the project is suitable for consideration.

### The Grand Challenge Awards

(See the [Grand Challenges website](#))

#### Grand Challenge – Artificial Intelligence and Data

Awarded to an entry that illustrates the potential use of computer science and datasets for problem solving.

#### Grand Challenge – Clean Growth

Awarded to an entry which illustrates the potential for greater sustainability or more efficient use of resources.

#### Grand Challenge – Future of Mobility

Awarded to an entry which illustrates the potential for more efficient or enjoyable transport experience.

#### Grand Challenge – Ageing Society

Awarded to an entry which illustrates the potential for technology to meet the needs of an ageing society.

### The Skills Awards

#### Skills Award – Practical Investigation

Awarded to an entry which evidences practical scientific investigation skills such as planning, asking questions, making predictions, setting up tests, observing, measuring, collecting, recording and analysing data and evaluation.

#### Skills Award – Effective Communication

Awarded to an entry which explains scientific ideas in an engaging, informative and accessible way.

#### Skills Award – Creativity and Design

Awarded to an entry which evidences originality and inventiveness in concept or presentation.

#### Entrepreneurial Potential

Awarded to an entry which evidences the potential for commercial success of the product or its creator(s).

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## Judging Criteria

The criteria below will be used to mark entries and are provided here to help entrants understand what they need to think about to help ensure their entry's success.

Focus	Mark
Was the <b>problem</b> addressed by the entry novel and/or interesting?	/5
Was the <b>solution</b> provided by the entry novel and/or interesting?	/5
Did the entry show evidence of:	
● Good research?	/10
● Innovative thinking?	/10
● Practical investigation?	/10
● Effective communication of ideas?	/10
● Attractive presentation?	/10
How effectively did the Competition Entry Form describe the project?	/10
How effectively did the Display Board Poster illustrate the project?	/10
Thinking about the problem that the entry aimed to solve, how effectively did the entry 'Make It Happen'?	/10
As the project judge, what is your personal response to the project overall?	/10
<b>TOTAL</b>	<b>/100</b>

## Celebration and Awards Ceremony

Winners will be announced at the virtual All About STEM Competition Celebration and Award Ceremony, which will take place on **Tuesday 5th July 2022 at 4pm**.

## The Fine Print

- Guidelines may be subject to change
- Entrants must ensure contact details are correct and updated where necessary
- Health and Safety and risk assessment in relation to any Competition project work is the responsibility of entrants / teachers / youth leaders etc. themselves
- No plagiarism
- Incomplete entries will not be judged
- Judges' decisions are final

