## **ROBOTICS CHALLENGE: Evaluation summary 2022/23**



Ages 11 to 14

Typically self-selecting students, often through STEM clubs



Flexible project work (10 to 15 hours)



Capabil

Motivation

Opportunit

Optional competitive component



**Evaluation respondents** 

Students at 75 schools

Teachers at 105 schools

## **Student Gender**

34% Female Male 60% Other gender 3% identities

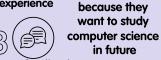
## Student STEM engagement

High 73% 23% Medium low

Students say they took part...



experience



to get feedback from STEM experts 97%

of students say they enjoy the Robotics Challenge

86%

of students say it made them want to do more STEM activities in future

93% of teachers agree that Robotics Challenge is engaging for their students

92%

of teachers rate **Robotics Challenge** as 'excellent' or 'good'

After taking part in Robotics Challenge...

...students have **improved a range of skills**...



Resilience



Leadership



Teamwork

85%



Students said that they are **interested** in a future career involving engineering

Students want to find out more 77% about engineering as a career

> Teachers said they are more likely to suggest to a student that they consider a career in engineering

Teachers said they are **more** confident giving engineering **careers** advice

69%



59%

Students need capability, opportunity and motivation to pursue further study and

scientists in the future.

careers as

computer

engineers and

Teachers have an important role to play in supporting students to achieve this.



<sup>1.</sup> Students took part in our survey conducted in person at 10 Robotics Challenge competition heats and online for our virtual heats. Teachers were invited to participate via online links and in person during the same heats.

<sup>2.</sup> STEM engagement refers to the degree to which young people possess the requisite knowledge, attitudes and capability to pursue science, technology engineering or mathematics (STEM). This was calculated based on students' survey responses to our question asking about the type of science related activities they already do outside of school

<sup>3.</sup> Other response options to this question included, 'To present my ideas', 'To develop skills', 'To have fun', 'To win prizes or awards', 'To meet other students who like STEM or Robotics', 'Because my teacher/parent/guardian suggested I should', 'Because my friends were taking part', 'Other'