

TEACHER GUIDE

Design a Robot Competition

Ourfuture



Our Future have partnered with UTC Derby Pride Park to launch a 'Design a Robot Competition' with some great prizes to be won!

The competition can be run in school or completed at home with family engagement. A parent/carer competition guide is available here: www.learnbydesign.co.uk/robot-competition

Teacher Resources to Support the Competition

As a great way to link this competition to careers, we recommend using the Our Future teacher-led resources and activities called 'Robotics Challenge' available on the links below. The Robotics Challenge introduces your learners to the world of robotics and coding, and a variety of careers that are important for the success of this ever-growing industry! The resources include full lesson plan with accompanying PowerPoint, teacher guide and printable worksheets.

KS1 Resources Link:

<https://ourfuture.startprofile.com/page/ourfuture-ks1#stem>

KS2 Resources Link:

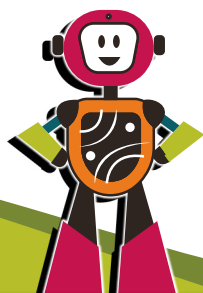
<https://ourfuture.startprofile.com/page/ourfuture-ks2#stem>

Prizes

First prize: The winning entry will receive a free Robotics activity day for their school focusing on future careers and delivered by the Our Future team in partnership with UTC Derby Pride Park. The winning entrant will also receive a goody bag of prizes for themselves!

Second and third prize: Will receive a gift from UTC Derby Pride Park to use in their classroom and a goody bag of prizes for themselves!

All winning and runner up entries will be displayed on Learn by Design's Wall of Fame and social media. **Runner ups** who get their entry displayed online will also receive a certificate.



The Challenge:

Pupils design a robot to help around school.

Every entry will need to include:

- A drawing of the robot
- Labels to explain the robot's features and the materials it will be made from.
- A few sentences explaining their design and why it should win the Robotics Competition.
- The pupil's full name (first name and first initial of surname is also acceptable), year group and school name.

Optional extras:

- Designs can include sizes and measurement if pupils want to get technical.

Designing the Robot

Learners need to decide what kind of robot they want to design. The robot needs to be something that could help an area of their school and work practically.

For example, they could design a robot that:

- Can help in P.E. class
- Can help play games in the playground
- Can help at lunch time to prepare and serve food
- Or any other innovative ways to help around school.

Before designing, learners need to have a clear goal as to the purpose of their robot i.e. what they want their robot to help with at school. Learners should write down what the purpose of their robot is and label their design, highlighting the features and materials. Adults can do the writing on behalf of younger children. Learners can name their robot and make it stand out with lots of colour.

How to Enter

A competition entry form is available to [download here](#), but we will accept entries designed on plain paper or computer.

Submit your entries via e-mail to

competitions@bydesign-group.co.uk

by Monday 13th June 2022.