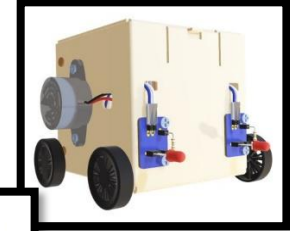
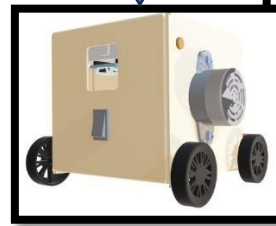
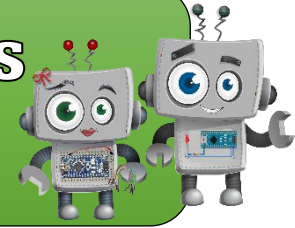


Coding & Robotics Competition

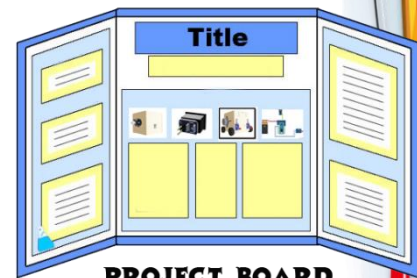


Level 1 Competition Criteria:

- Grade 1 to 3 learners may participate in this section.
- Make use of a project board to lay out the project.
- Use components in the FFC Robotics kit to build your own project.
- Draw a circuit of your project indicating the following components:
 - Light bulb and/or Buzzer
 - Power Source
 - Switch
 - Wires
- List all the components and add pictures.
- Describe all the components.
- You may use any recycled material to build your model.
- **Decorate** your final product.
- Make a ± 3 min. video of your complete project to explain what you did in your project.

Level 2 Competition Criteria:

- Grade 4 to 7 learners may participate in this section.
- Make use of a project board to lay out the project.
- Use components in the FFC Robotics kit to build your own project.
- Draw a circuit of your project indicating the following components:
 - Buzzer and/or LEDs
 - Resistors
 - Power Source
 - Switch
 - Arduino Nano
 - Mini Breadboard
 - Wires
- List all the components and add pictures.
- Describe all the components.
- You may use any recycled material to build your model.
- **Decorate** your final product.
- Describe the programming steps on the project board.
- Program the Arduino micro controller to control the LEDs and/or buzzer.
- Make a ± 4 min. video of your complete project to explain what you did in your project.



PROJECT BOARD

How to enter:

Learners must participate in teams of 4 and teams can consist of learners in different grades. Complete the registration form with all the details of your school and your team.

Email the registration form to gustav@skillspro.co.za and alti@skillspro.co.za on or before 14:00 of the 1st of May 2024.

Complete your project as per the details on the first page and send the video and photos of your Project Board to the email addresses above before 15 November 2024. Finalists may be asked to send their detailed Project Boards (including board and model built) to the organisers for final judgement.

Each school may enter more than one team for the competition.

Prizes will be given per school and per team and consist of the following:

	Schools: (R10 000)	Team: (R3 600)
First Prize:	R5 000	R1 600 (R400 per learner)
Second Prize:	R3 000	R1 200 (R300 per learner)
Third Prize:	R2 000	R800 (R200 per learner)

Rules and Regulations.

- The participants must be in a school using the Future-FUN CAPS Coding and Robotics Full Curriculum or Club Version.
- The participants must register and use the FFC Robotics kit components.
- The participants may use any recycled material to build a model, as long as all the components of the FFC Robotics kit are used in the final product.
- The pictures added can be photographs, drawings, or pictures from any type of source as long as they do not have any copyright on them.
- Video recording can be done by means of a cell phone or any other recording device.
- The participants must use the approved materials, tools, and software.
- Participants must follow the safety and ethical guidelines of the competition.
- Projects will be judged and evaluated using the following criteria: aesthetics, complexity, comprehensiveness, understanding of electronics, creativity, components used and the use of recycled materials.
- The participants must accept the decisions and feedback of the judges and organisers and abide by the rules and regulations of the competition.

