

Programming, Apps & Robotics Judging (including electronic games)

Student Name (s): _____, Year level: _____

School: _____

Project Title: _____

Type of Project: eg simulation, control of a robot, demonstration of a Science concept,

Criteria for Judging

- The entry uses one of the listed programming tools, or similar: Scratch, Blockly, Microsoft MakeCode, micro:bit, Python, Arduino, MIT App Inventor, Unity, LEGO robotics, Sphero, Kookaberry.
- The core of the entry is a scientific concept or purpose. Programming or robotics are the tools used to explore, demonstrate, or solve a science-related challenge.
- Simulations and electronic games must exhibit a scientific principle and allow other users to vary parameters and see the effects.
- Where possible, two judges should assess each project, and decide on winners by consensus.

The entry meets the programming requirements as above?	
What programming language(s) and tools were used to create the project?	
Does the entry contain significant Science content? What is this Science concept that is explored or used? Is the science accurate?	
How effective is the robot/ program in investigating or demonstrating the Science idea?	
Why did the students choose to do this project? Why did they do it using a robot/program?	
Does the project have a practical use? Who would use it, and why?	
Is the project appealing? Would another person want to use it?	
Are the visuals (e.g. graphs, diagrams, screenshots) clear, labelled and relevant to the material being presented?	
How robust is the project? Does it gracefully handle bad input from users? Does it crash?	
What documentation accompanies the project? Are there clear instructions explaining how to load and use the program?	
Is there are a copy (hard or electronic) of the program, and an explanation of what the sections of the program do?	
Is the project substantially the work of the students? If help was received, has it been acknowledged? Does the report include a bibliography?	
What is the overall assessment of the project? Which elements are particularly striking?	
Any other comments?	