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3D Printing Competition for High School Students

Love 3D design and 3D printing? Enter the 2022 Royal Adelaide Show competitions and see your 3D printed design on display at The Show. You could even win a \$50 cash prize!

CATEGORY 1 – SCULPTURE

Design a three-dimensional object that is free-standing and no larger than a 200 mm cube. For example, chess piece, figurines etc.

Entries will be judged on: Originality; Degree of Innovation; 3D printability; Aesthetic quality; Quality and clarity of presentation materials

Each participant will supply a portfolio of work (in hard copy, not USB) as per the guidelines below to support the design process of their final 3D sculpture.

- Provide a cover sheet with your name, school you attend and an image of your entry.
- Research detailing ideas, sketches and images of at least three possible solutions with notation.
- Final sketched solution with notation
- At least six screen grabs of the CAD Design process with detailed notes.
- Final rendered image prior to 3D printing.
- Evaluation and reflection of the final 3D project.
- 3D printed object.

PRIZES

1. **Class 80 THE MAKERS EMPIRE PRIZE Sculpture – Years 7 and 8**
First place wins \$50.00 sponsored by Makers Empire
2. **Class 81 THE MAKERS EMPIRE PRIZE Sculpture – Years 9 and 10**
First place wins \$50.00 sponsored by Makers Empire
3. **Class 82 THE MAKERS EMPIRE PRIZE Sculpture – Years 11 and 12**
First place wins \$50.00 sponsored by Makers Empire



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CATEGORY 2 – FUNCTIONAL OBJECT

Design a functional object that has at least two parts and is no larger than a 200 mm cube. For example, a box with a lid, hinges, jigsaw, compass etc.

Your entry will be judged on: Originality: degree of innovation, the complexity of the assembled product (if applicable) and how the components/sub-parts connect and/or interact; 3D printability; Aesthetic quality; Quality and clarity of presentation materials.

Each participant is to supply a portfolio of work (in hard copy, not USB) as per the guidelines below to support the design process of their final 3D object.

- Provide a cover sheet with your name, school you attend and an image of your entry.
- Research detailing ideas, sketches and images of at least three possible solutions with notation
- Final sketched solution with notation
- At least six screen grabs of the CAD Design process with detailed notes.
- Final rendered image prior to 3D printing.
- Evaluation and reflection of the final 3D project.
- 3D printed object.

PRIZES

1. **Class 83 THE MAKERS EMPIRE PRIZE Functional Object – Years 7 and 8**
First place wins \$50.00 sponsored by Makers Empire
2. **Class 84 THE MAKERS EMPIRE PRIZE Functional Object – Years 9 and 10**
First place wins \$50.00 sponsored by Makers Empire
3. **Class 85 THE MAKERS EMPIRE PRIZE Functional Object – Years 11 and 12**
First place wins \$50.00 sponsored by Makers Empire

Important Dates

- **Fri 15 July:** entries must be submitted via the Royal Adelaide show website by 5pm.
- **Wed 31 August:** Deliver 3D printed designs to the Stirling Angus Pavilion – Lower Level
- **Thurs 2 September:** Judging of entries by Makers Empire
- **Tues 13 September:** collect of 3D printed designs from 9.00 am to 3pm

Restrictions on Entries

- Entry is \$4.50 per entry. Exhibitors may not submit more than one entry per category.

www.makersempire.com/royaladelaideshow