

Models & Inventions

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*If a picture paints a thousand words a good model must be worth a million.
Necessity is the mother of invention; look around - what do we need?*



**AUSTRALIAN
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SOUTH AUSTRALIA

A successful SASTA Oliphant Science Awards Models & Inventions entry:

- Has accurate science content.
- Will be interactive allowing the viewer to manipulate it in some way.
- Will communicate ideas clearly.
- Will show creativity and originality.
- Will show skill in construction and design.

Rules for Models & Inventions:

- A group of up to 3 students can complete a Models & Inventions entry. The highest year level in the group will determine the year category of the entry.
- The Risk Assessment for Models & Inventions form must be completed and **signed by a teacher** before you start your entry.
- The ideas demonstrated in the model or invention must be your own work.

Your model or invention must be no larger than 75cm in height x 75cm in width x 75cm in length.

- Your model or invention must not weigh more than 8 kg.
- Your model or invention cannot be built from a kit without additional original input.
- Your model or invention must not include live animals or plants.
- **Your model must not require the use of mains power.**
- Although the **use of liquids is not encouraged**, if using liquids for hydraulics or to replicate venom (for example), the liquid must be contained in a container & clearly labelled with what kind of liquid is in case of leaks.
- Your model or invention must not include any items of value – SASTA cannot accept responsibility for any loss or theft of goods.
- All parts must be clearly labelled with your ID number (see Identification Label), because parts may become separated during judging or transport.

Key Dates:

- **Monday 21 July – Sunday 27 July:** report & risk assessment submitted online
- **Wednesday 30 July:** project delivered onsite

A short written report must include:

- The completed and signed Risk Assessment for Models & Inventions form.
 - The scientific principle demonstrated by your model or used in your invention.
 - How the entry was made, including any adult help needed in its construction.
 - Any problems that occurred and how you overcame the problems.
 - How to operate your model or invention.
- The report length depends on your year level:
- Year R–2: less than 100 words;
 - Year 3–4 and 5–6: approximately 250 words;
 - Year 7–8, 9–10, 11–12: do not exceed 500 words.

If there is any special reason for someone other than the entrants to edit or type the report this must be acknowledged in the report. You must also acknowledge any other assistance that you receive (see earlier Conditions of Entry).

In presenting your Models & Inventions entry:

- **An electronic copy of your report and risk assessment MUST be uploaded to the Oliphant Science Awards website between 21 - 27 July. Please include a photo of your model in your report.** Details can be found here: <https://bit.ly/OSAOnlineSubmission>
- **Attach a hard copy Report and Risk Assessment when delivering your project**
- You must attach your Identification Details as sent to you from your School Coordinator (ID Label or Electronic Cover Sheet)
- Students are asked to consider recording a short video of their project to support their submission. This could be uploaded as an unlisted video on YouTube and shared via URL or QR code on your report!
- **Special consideration for country schools:** Because of the difficulty and possible damage to models and inventions, students may send in a video of their entry working instead of their actual entry. Details can be found here: <https://bit.ly/OSAOnlineSubmission>

