

PA Media and Design Competition

3D Design - NEW Category

Specific Category Rules and Rubric

Create an environmentally friendly device for your community, school or home that would solve a problem, issue, or support a device to be more efficient.

Project & Software Examples

Projects

- STL files printed into real objects

Software

- Design: TinkerCAD, SolidWorks, AutoCad, SketchUp, Rhino
- Slicing: Cura, Astroprint

Directions: Identify an issue in your community, school or home. Then, think out and design a physical solution that could address the issue and resolve the problem.

Problem Description: Include a description of the problem and the impact it has on your community, school or home. This can be written or a video.

Solution Description: Provide a detailed explanation of your solution. Be creative and explain how you will use various technologies, designs, features, etc to combat the problem. This can be written or a video.

Solution Design (3D Design): Design your solution using 3D design software. Include images in your presentation with labels that show the features of your design as detailed in your solution description.

Printed 3D Design: Students should display their final 3D print and are encouraged to be creative in how they display the design (draw/color environment, include toy people, cars, etc) to display how it would be placed within the community.

- Space will be assigned and limited to 3 feet per project.

A project will be **disqualified** if any of the following occur:

- The narrative description is missing. (see below)
- Copyright information and credits are not included on the narrative or displayed with the project. (see below)
- A planning document is not displayed/available that clarifies the process used to create the project. (see below)

If a project meets the above rules it will be judged using the following: **3D Design Scoring Guideline**

Narrative Description

Narrative descriptions are required for all projects; the narrative description/project summary is now included in the **PA Media and Design Competition Participation Packet**. If the narrative is not provided, the project will be disqualified. Narratives must be detailed enough to provide the judges with any information to fairly judge the project. Attach additional pages if necessary.

Copyright Requirements

The **PA Media and Design Competition Participation Packet** includes a participation agreement that must be signed by all participating students on a project and their teacher sponsor. Part of the agreement outlines copyright expectations, as well as other project requirements.

Suggested sites to search for media:

Creative Commons - This site provides searchable material from various authors that are usable under certain conditions.

Public Domain Pictures.net - The PA Media and Design Competition, although educational, removes the student work from the classroom and therefore requires the student to get permission from the owner to use any copyrighted music, video, graphics, etc. Fair use does NOT apply. Remember to credit music or items that were created by yourself or friends as well.

Storyboard/Planning Doc

All projects need to display the process used to create the project. This should be specific and as detailed as possible to give the judges the necessary background regarding how it was developed. You may choose to put it on your tri-fold display or bring a loose-leaf notebook with your notes.

Helpful Hints

- The document will not be judged for grammar or appearance.
- Tri-fold displays are not judged, they are for clarification purposes only.
- Get photo releases signed by everyone in your project in any media format.