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| Overview | | | |
| Category Definition | | | |
| Project Presentation  Projects may present on any A-D paper size is acceptable, not exceeding 24” X 36”.  Projects with more than one sheet should be fastened on the left side.  Student developed title block is preferred, but not required. Your title block should contain the following in particular order: School name, Student Name, Contest Number, Student Unique Identification Number. | | | |
| Project guidelines  Drawings should use standard symbols developed by ANSI.  Pictorials are optional on all drawings. School logos and student developed logos are permitted. Color is permitted on presentation drawings, cover pages, bindings, and logos. | | | |
| Documentation  Documentation is required to eligible for any awards. Project documentation is to be enclosed a clear page cover sheet. | | | |
| Entry Card attachment | | | |
| Project Judging: | | | |
|  | | **Ind.** | **Team** |
| 1 | 2 |
| **Manual Drafting** | | | |
| Sketch Drawing - Any Mechanical part or parts | 6100 |  |  |
| Working drawing of a single part | 6101 |  |  |
| Working drawing of jigs and fixtures | 6103 |  |  |
| Working drawings of gears, cams, and levers | 6104 |  |  |
| Working drawing of multiple part machine or mechanical device | 6105 |  |  |
| Pictorial drawing of a single part | 6106 |  |  |
| Pictorial drawing of a multiple part machine or mechanical device | 6107 |  |  |
| Presentation drawing of a single part illustrated in any way | 6108 |  |  |
| Presentation drawing of a multiple part machine or mechanical device | 6109 |  |  |
|  |  |  |  |
| **2D CADD** | | | |
| Working drawing of a single part | 6200 |  |  |
| Working drawing of jigs and fixtures | 6201 |  |  |
| Working drawings of gears, cams, and levers | 6202 |  |  |
| Working drawing of multiple part machine or mechanical device | 6203 |  |  |
| Pictorial drawing of a single part | 6204 |  |  |
| Pictorial drawing of a multiple part machine or mechanical device | 6205 |  |  |
| Presentation drawing of a single part illustrated in any way | 6206 |  |  |
| Presentation drawing of a multiple part machine or mechanical device | 6207 |  |  |
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| **3D CADD** | | | |
| Working drawing of a single part | 6300 |  |  |
| Working drawing of jigs and fixtures | 6301 |  |  |
| Working drawings of gears, cams, and levers | 6302 |  |  |
| Working drawing of multiple part machine or mechanical device | 6303 |  |  |
| Pictorial drawing of a single part | 6304 |  |  |
| Pictorial drawing of a multiple part machine or mechanical device | 6305 |  |  |
| Presentation drawing of a single part illustrated in any way | 6306 |  |  |
| Presentation drawing of a multiple part machine or mechanical device | 6307 |  |  |
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| **Mechanical Models** | | | |
| Model entries (any material) | 6400 |  |  |
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| **3D Printer - Engineered Prototype Models** | | | |
| Single part Engineered Prototype | 6500 |  |  |
| 2 to 5 pieces Engineered Prototype assembled without adhesives | 6501 |  |  |
| 6 to 10 pieces Engineered Prototype assembled without adhesives | 6502 |  |  |
| 11 or more pieces Engineered Prototype assembled without adhesives | 6503 |  |  |
| 2 to 5 pieces Engineered Prototype assembled with adhesives | 6504 |  |  |
| 6 to 10 pieces Engineered Prototype assembled with adhesives | 6505 |  |  |
| 11 or more pieces Engineered Prototype assembled with adhesives | 6506 |  |  |
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| **Alternative Energy** | | | |
| Solar | 6600 |  |  |
| Bio-Fuels | 6601 |  |  |
| Wind | 6602 |  |  |
| Other | 6603 |  |  |