



## SECME National Engineering Design Student Competition Guidelines



### COMPETITION REQUIRED REPORTING CHECKLIST

The following is the required SECME competition documents, reports, videos, and forms that the SECME Coordinator must electronically upload on or before **Monday, April 11, 2022**. Required competition reports not submitted will result in a zero score for that section. Except for videos, **ALL** work must be converted to a PDF document before submitting.

ESSAYS/VISION BOARD		
Grades Pre-K-2	Grades 3-7	Grades 8-12
<ul style="list-style-type: none"> <li>Vision Board</li> <li>Video vision board explanation</li> <li>Consent Form</li> <li>Student Photo</li> </ul>	<ul style="list-style-type: none"> <li>Essay</li> <li>Vision Board</li> <li>Vision Board Explanation (1-paragraph)</li> <li>Video vision board explanation (optional)</li> <li>Consent Form</li> <li>Student Photo</li> </ul>	<ul style="list-style-type: none"> <li>Essay</li> <li>Vision Board</li> <li>Vision Board Explanation (1-paragraph)</li> <li>Video vision board explanation (optional)</li> <li>Consent Form</li> <li>Student Photo</li> </ul>
PICTURE BOOK		POSTER
Grades 8-12		ALL Grade Levels
<ul style="list-style-type: none"> <li>Picture Book</li> <li>Consent Form</li> <li>Student Photo</li> </ul>		<ul style="list-style-type: none"> <li>Poster</li> <li>Consent Form</li> <li>Student Photo</li> </ul>
ELEMENTARY SCHOOL DIVISION		
MTC	WBR	VEX IQ
<ul style="list-style-type: none"> <li>Written Report (includes MTC materials list and handwritten calculations)</li> <li>Photos of car</li> <li>Video of car in motion</li> <li>Consent Forms</li> <li>Team Photo</li> </ul>	<ul style="list-style-type: none"> <li>Written Report (includes calculation exercises )</li> <li>Patch</li> <li>Photos of rocket</li> <li>Video of rocket in motion</li> <li>Consent Forms</li> <li>Team Photo</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Notebook</li> <li>Photos of robot</li> <li>Video of robot in motion</li> <li>Consent Forms</li> <li>Team Photo</li> </ul>
MIDDLE/HIGH SCHOOL DIVISION		
MTC	WBR	VEX V5
<ul style="list-style-type: none"> <li>Technical Report (include MTC materials list and handwritten calculations)</li> <li>PowerPoint Presentation</li> <li>Technical Drawing</li> <li>Photos of car</li> <li>Video of the car in motion</li> <li>AOE video presentation</li> <li>Consent Form</li> <li>Team Photo</li> </ul>	<ul style="list-style-type: none"> <li>Technical Report (include calculation exercises)</li> <li>Patch</li> <li>PowerPoint Presentation</li> <li>Technical Drawing</li> <li>Photos of rocket</li> <li>Video of rocket in motion</li> <li>AOE video presentation</li> <li>Consent Form</li> <li>Team Photo</li> </ul>	<ul style="list-style-type: none"> <li>Technical Report</li> <li>PowerPoint Presentation</li> <li>Technical Drawing</li> <li>Photos of robot</li> <li>Video of robot in motion</li> <li>AOE video presentation</li> <li>Consent Form</li> <li>Team Photo</li> </ul>



## SECME National Engineering Design Student Competition Guidelines



### ADDITIONAL SUBMISSIONS DUE

Student Surveys - All SECME students participating in your SECME program for the 2021-2022 school year, regardless of whether they competed in your local/state/district/regional competition, are encouraged to complete the annual student survey. **All competing SECME students** who placed first at your local/state/district/regional SECME competition **MUST** complete the SECME student survey. If the SECME student survey is NOT completed, the SECME student(s)/student team(s) is NOT eligible to place in SECME National Competition Finals

### EXPLANATIONS

Vision Board Video Explanations – *Video explanations should be a maximum of four (4) minutes.*

MTC and WBR - *Technical and Written reports must have the materials list page included in the report. Reports should also include where applicable, their handwritten calculations (MTC) and 1 set per team of the calculation exercises (WBR).*

#### Photos of vehicle

*MTC photos should be from 5 different angles: top and bottom view; left, right and back side views.*

*WBR photos should be from 4 different angles: top and bottom view; left and right-side views.*

*VEX photos should be from 4 different angles: top and bottom view; left and right-side views.*

Consent Forms – *Consent forms are required for **each** student and **each** student on the team.*

*AOE Video Presentations should be five to seven minutes maximum.*

*A video demonstrating the movement and functionality of SECME student team's vehicle, and the demonstration video should not longer than 2-minutes.*