

# 2019 Mount Washington Valley Regional Science & Technology Fair Project Scoring Rubric

## Invention (**Engineering Design Process**)

Ex # \_\_\_\_ Student Name \_\_\_\_\_  
 Project Title \_\_\_\_\_  
 Wave # \_\_\_\_ School \_\_\_\_\_  
 Engineering

Project Elements	Very Good	Good	Fair	Not Done			
<b>Engineering Design Process</b>							
<b>Problem/Title:</b> The problem is included, either as a title or separately; it is descriptive, creative and relevant with a well-defined outcome.	10	9	8	7	6	5	0
<b>Research:</b> Prior knowledge and/or background research is cited. Sources are relevant.	10	9	8	7	6	5	0
<b>Solution:</b> Addresses the problem in a clear well-reasoned manner.	10	9	8	7	6	5	0
<b>Materials:</b> lists bill of materials, description of hardware, software, etc.	10	9	8	7	6	5	0
<b>Procedure:</b> Process attempts to address the problem, describing the sequence of the student's approach and reasoning.	10	9	8	7	6	5	0
<b>Results:</b> Results describe outcomes and show results of prototype tests and chronology of modifications etc.	10	9	8	7	6	5	0
<b>Conclusion:</b> Restates the problem and notes how the design did or did not solve the problem.	10	9	8	7	6	5	0
<b>Discussion:</b> Explains what happened. Tells what worked and what didn't, notes how changes affected designs/results, what problems occurred and how they were overcome, suggest changes.	10	9	8	7	6	5	0
<b>Project Quality:</b> The project is creative and presented in a neat, well organized manner and includes all of the above elements. <u>If team project, how did each student contribute?</u>	10	9	8	7	6	5	0
<b>Interview:</b> Student(s) has a thorough understanding of the project, are engaging and speaks with confidence. <u>If team project, do both students contribute?</u>	10	9	8	7	6	5	0
<b>Total Score</b>	/100						

Comments and Overall Impression:

Rank            1        2        3  
 (Circle one)

Judges Initials \_\_\_\_\_

# 2019 Mount Washington Valley Regional Science & Technology Fair Project Scoring Rubric

## Experiment (Fair Test)

Ex # \_\_\_\_ Student Name \_\_\_\_\_  
 Project Title \_\_\_\_\_  
 Wave # \_\_\_\_ School \_\_\_\_\_  
 Fair Test

Project Elements	Very Good	Good	Fair	Not Done
<b>Fair Test</b>				
<b>Question/Title:</b> The research question is included, either as a title or separately; it is testable, descriptive, creative and relevant.	10	9	8	0
<b>Research:</b> Prior knowledge and/or background research is cited. Sources are relevant.	10	9	8	0
<b>Hypothesis:</b> Is presented as clear & well-reasoned explanation of the phenomenon.	10	9	8	0
<b>Materials:</b> list is complete with details about quantity, size, condition etc.	10	9	8	0
<b>Procedure:</b> Description is thorough, listing variables, explaining set up, describing measurements, chronology etc.	10	9	8	0
<b>Results:</b> Results describe the data and may include tables, charts, graphs and illustrations with proper units etc.	10	9	8	0
<b>Conclusion:</b> Restates the question and notes how the experiment did or did not answer the question.	10	9	8	0
<b>Discussion:</b> Explains the results, analyzes trends and patterns, notes anomalies, report errors, etc. It should note new questions asked, suggests changes needed, etc.	10	9	8	0
<b>Project Quality:</b> The project is creative and presented in a neat, well organized manner and includes all of the above elements. <u>If team project, how did each student contribute?</u>	10	9	8	0
<b>Interview:</b> Student(s) has a thorough understanding of the project, are engaging and speaks with confidence. <u>If team project, do both students contribute?</u>	10	9	8	0
				/100

Comments and Overall Impression:

Rank            1        2        3  
 (Circle one)

Judges Initials \_\_\_\_\_