

Project # _____

Name of Student _____

Judge # _____

RESEARCH PROJECT RUBRIC (Last revised 6/04/24)

	Descriptors (Note: Number in () denotes points possible for descriptor)	Your Score
Research Question(s) (12 points)	1) Clear and focused purpose (4)	____ / 4
	2) Identifies contribution to field of study (4)	____ / 4
	3) Testable using scientific methods (4)	____ / 4
Design and Methodology (8 points)	1) Well-designed plan and data collection methods (4)	____ / 4
	2) Variables and controls defined appropriate, and complete (4)	____ / 4
Execution: Data Collection, Analysis, and Interpretation (12 points)	1) Systematic data collection and analysis with sufficient data collected to support interpretation and conclusion (4)	____ / 4
	2) Reproducibility of results (4)	____ / 4
	3) Appropriate application of mathematical and statistical methods (4)	____ / 4
Creativity (4 points)	1) Project demonstrates significant creativity in one or more of the above criteria (4)	____ / 4
Visual of project (PowerPoint, Prezi, Poster board, etc) (16 points)	1) Logical organization of materials (ex. Introduction or Statement of Purpose; Background and/or literature search; Hypothesis; Data; Interpretation of Data; Conclusion; Further Research) (8)	____ / 8
	2) Data tables, graphs, photos, etc are clearly labeled and includes source citations (8)	____ / 8
Presentation & Interview (24 points)	1) Clear, concise, thoughtful responses to questions (4)	____ / 4
	2) Understanding of basic science relevant to project (4)	____ / 4
	3) Understanding interpretation and limitations of results and conclusion (4)	____ / 4
	4) Degree of independence in conducting project (4)	____ / 4
	5) Recognition of potential impact in science or society (4)	____ / 4
	6) Quality of ideas for future research (4)	____ / 4
Length of presentation (4 points)	Presentation time is 8-10 minutes. Time does not include the question & answer portion that will follow the presentation. (5)	____ / 4
TOTAL:		____ / 80

Note: A score of 60 or higher denotes a passing score.

Project # _____

Name of Student _____

Judge # _____

ENGINEERING PROJECT RUBRIC (Last revised 6/04/24)

	Descriptors (Note: Number in () denotes points possible for descriptor)	Your Score
Research Question(s) (12 points)	1) Clear and focused purpose (4)	____ / 4
	2) Identifies contribution to field of study (4)	____ / 4
	3) Testable using scientific methods (4)	____ / 4
Design and Methodology (8 points)	1) Exploration of alternatives to answer a need or a problem (4)	____ / 4
	2) Identification of a solution (4)	____ / 4
Execution: Data Collection, Analysis, and Interpretation (12 points)	1) Prototype demonstrates intended design (4)	____ / 4
	2) Prototype has been tested in multiple conditions/trials (4)	____ / 4
	3) Prototype demonstrates engineering skill or product design skill and completeness (4)	____ / 4
Creativity (4 points)	1) Project demonstrates significant creativity in one or more of the above criteria (4)	____ / 4
Visual of project (PowerPoint, Prezi, Poster board, etc) (16 points)	1) Logical organization of materials (ex. Introduction or Statement of Purpose; Background and/or literature search; Hypothesis; Data; Interpretation of Data; Conclusion; Further Research) (8)	____ / 8
	2) Data tables, graphs, photos, etc are clearly labeled and includes source citations (8)	____ / 8
Presentation & Interview (24 points)	1) Clear, concise, thoughtful responses to questions (4)	____ / 4
	2) Understanding of basic science and engineering design process relevant to project (4)	____ / 4
	3) Understanding interpretation and limitations of results and conclusion (4)	____ / 4
	4) Degree of independence in conducting project (4)	____ / 4
	5) Recognition of potential impact in science or society (4)	____ / 4
	6) Quality of ideas for future research (4)	____ / 4
Length of presentation (4 points)	1) Presentation time is 8-10 minutes. Time does not include question & answer session that will follow the presentation. (4)	____ / 4
TOTAL:		____ / 80

Note: A score of 60 or higher denotes a passing score.