

Judges' Scoring Rubric

P R O J E C T R E P O R T	Problem (project question)	Characteristics	Comments	0-5 Points
		<ol style="list-style-type: none"> 1. Stated as a testable question <input type="checkbox"/> 2. Relates specifically to the effect of one variable upon another <input type="checkbox"/> 3. No obvious answer <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
	Research	Characteristics	Comments	0-5 Points
		<ol style="list-style-type: none"> 1. Relates to the problem statement <input type="checkbox"/> 2. Any direct quotes or paraphrased materials are cited <input type="checkbox"/> 3. Cites adequate research <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
	Hypothesis	Characteristics	Comments	0-5 Points
	<ol style="list-style-type: none"> 1. Sufficient background research <input type="checkbox"/> 2. Predicts how changing the Independent Variable changes the Dependent Variable <input type="checkbox"/> 3. Clearly relates to the problem (project question) <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>	
Methodology (procedures)	Characteristics	Comments	0-5 Points	
	<ol style="list-style-type: none"> 1. Procedures will produce necessary data <input type="checkbox"/> 2. Procedures clearly written <input type="checkbox"/> 3. Project could be replicated <input type="checkbox"/> 4. Appropriate instrumentation used, if required <input type="checkbox"/> 5. All materials used are listed <input type="checkbox"/> 		Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>	

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P R O J E C T R E P O R T	Experimental Design	Characteristics	Comments	0-10 Points (Weighted)
		<ol style="list-style-type: none"> 1. Independent variable defined and used correctly <input type="checkbox"/> 2. Dependent variable defined and used correctly <input type="checkbox"/> 3. Control defined and used correctly <input type="checkbox"/> 4. Constants defined and used correctly <input type="checkbox"/> 5. Repeated trials with sufficient test subjects <input type="checkbox"/> 		Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> _____ x 2 = _____
	Data Collection	Characteristics	Comments	0-5 Points
		<ol style="list-style-type: none"> 1. Graphable, quantitative results <input type="checkbox"/> 2. Includes data from all trials <input type="checkbox"/> 3. Accurate collection procedures <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> _____
Data Presentation	Characteristics	Comments	0-5 Points	
	<ol style="list-style-type: none"> 1. Tables and graphs used <input type="checkbox"/> 2. X & Y axes labeled with correct units <input type="checkbox"/> 3. Intervals scaled correctly <input type="checkbox"/> 4. Neat/easy to read <input type="checkbox"/> 5. Tables and graphs titled/labeled <input type="checkbox"/> 		Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> _____	
Data Analysis	Characteristics	Comments	0-5 Points	
	<ol style="list-style-type: none"> 1. Describes and analyzes data mathematically <input type="checkbox"/> 2. Narrative connects tables and graphs to hypothesis <input type="checkbox"/> 3. Sources of error sufficiently described and analyzed (if possible) <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> _____	

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P R O J E C T R E P O R T	Conclusion	Characteristics	Comments	0-5 Points
		<ol style="list-style-type: none"> 1. Supported by data <input type="checkbox"/> 2. Limitations of results recognized (examples-too few samples, errors in collection, variables not controlled, too many variables) <input type="checkbox"/> 3. Reasonable recommendations for project improvement and ideas for project expansion <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
	Style	Characteristics	Comments	0-5 Points
	<ol style="list-style-type: none"> 1. Correct grammar, punctuation, spelling <input type="checkbox"/> 2. Paper organized in order with headings (table of contents, introduction, materials list, procedures, results, conclusion, bibliography) <input type="checkbox"/> 3. Material easily read (double-spaced, font size, simple font style, margins) <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>	
	Bibliography	Characteristics	Comments	0-5 Points
		<ol style="list-style-type: none"> 1. Appropriate credit given for print and electronic material <input type="checkbox"/> 2. Acknowledgement of contacts and mentors <input type="checkbox"/> 3. Uses correct style <input type="checkbox"/> 		Three areas – 5 points Two areas – 3 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
D I S P L A Y	Project Log	Characteristics	Comments	0-10 Points (Weighted)
	<ol style="list-style-type: none"> 1. Complete and continuous organization using Table of Contents, numbered pages, dates and times <input type="checkbox"/> 2. Original notebook or template form <input type="checkbox"/> 3. Notes accurate and detailed <input type="checkbox"/> 4. All parts included: procedures, observations, data collection, drawings, diagrams <input type="checkbox"/> 5. Legible and handwritten <input type="checkbox"/> 		Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> x 2 = _____	

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D I S P L A Y	Visual Display	Characteristics 1. Communicates intent and accomplishments <input type="checkbox"/> 2. Organized and neat <input type="checkbox"/> 3. Eye-catching format <input type="checkbox"/> 4. Pictures of experimentation <input type="checkbox"/> 5. Correct spelling and grammar <input type="checkbox"/>	Comments	0-5 Points Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> _____
	I N T E R V I E W	Content Knowledge of Project Subject	Characteristics 1. Demonstrates understanding of background knowledge <input type="checkbox"/> 2. Summarizes Experimental Design of project <input type="checkbox"/> 3. Results and Conclusions communicated <input type="checkbox"/> 4. Acknowledges possible errors and potential changes <input type="checkbox"/> 5. Answers judges' questions sincerely <input type="checkbox"/>	Comments
Oral Presentation Skills		Characteristics 1. Introduces self and project with enthusiasm <input type="checkbox"/> 2. Thorough <input type="checkbox"/> 3. Organized <input type="checkbox"/> 4. Easily heard and understood <input type="checkbox"/> 5. Makes eye contact <input type="checkbox"/>	Comments	0-5 Points Five areas – 5 points Four areas – 4 points Three areas – 3 points Two areas – 2 points One area – 1 point <u>Score</u> _____
General Comments to Student				
Total Points _____				