

CHECKPOINT 2: PROJECT PROPOSAL

Now it's time to put together your proposal. The proposal outlines how you will answer your problem. You'll need to identify the following: **problem statement** and **design ideas**. Let's define these below, then identify an example of each.

Problem statement Define the problem you are going to solve.	Design ideas What are you going to design AND build to solve this problem?
Example Owners need a way to water their plants when they are gone so that their plants don't die.	Example Design and build a prototype that waters a plant while a person is on vacation

Note: In an effort to eliminate as much personal bias as possible, scientific writing does not use personal pronouns.



Engineering Fair Project Proposal:

Before the design can begin, the **teacher must approve the grade-level-appropriate project**.

To get started, you will fill out the Project Proposal Form in your Engineering Fair workbook. After it is signed, you will need to save it and place it in your Engineering Fair binder or folder.

IMPORTANT!

If the project involves human subjects; vertebrate animals; human or animal tissue; hazardous substances, devices, or activities; or potential pathogens (like bacteria or mold), then special permission will need to be granted. Permission may be requested by completing **a form** provided by your teacher. Work completed prior to receiving permission may be rejected from the final report. Please discuss your project with your teacher before beginning.



Engineering Fair Proposal

The following engineering topic is being proposed for the Science and Engineering Fair project.

Problem Statement: Define a problem that the design will solve.

Design Ideas: What will be designed and built in order to solve the problem detailed above?

STUDENT: I agree that this will be the Science and Engineering Fair topic I'll be working on. If I need to change my project, I will contact my teacher and discuss the change. I agree to put forth my best work, and I understand that the Science and Engineering Fair project is **my** responsibility. I will seek help when needed, but I am fully aware that all work is to be done on my own. I also understand that this is a **long-term assignment**. As such, if work is not turned in by the due date, I will earn a zero for that assignment, as stated in the Parent and Student Handbook. (Teachers will use discretion to determine guidelines in acceptance of late assignments due to extreme circumstances.)

Student's signature: _____ Date: _____

PARENT/GUARDIAN: I support my child's efforts in doing this Science and Engineering Fair project and approve the project chosen. I understand that I will be responsible for obtaining the materials needed and will provide appropriate supervision.

Parent/Guardian's signature: _____ Date: _____

TEACHER: This project meets the requirements for the Science and Engineering Fair.

Teacher's signature: _____ Date: _____

Please note: The following rubric is intended to support students in determining their quality of work. Rubrics help students understand what success looks like and what they should strive for in order to excel in the state Science and Engineering Fair. The results of this rubric are not to be used toward grade-level content grades.

PROJECT PROPOSAL RUBRIC				
	5 points	2.5 points	0 points	Total Points
 Problem Identified	The problem is completely defined and is based upon results from the Engineering Brainstorm Protocol.	The problem is partially defined from the Engineering Brainstorm Protocol.	The problem is not defined.	
 Proposed design/build	The proposed design/build is explained with enough detail to describe how it will solve the problem.	The proposed design/build is explained in some detail and is unclear how it will solve the problem.	The proposed design/build to solve the problem is not explained.	
	2 points	1 point	0 points	
Student Signature		Includes the student signature.	Does not include the student signature.	
Parent Signature		Includes parent signature.	Does not include parent signature.	
	Total for Proposal*			/12 pts