



Engineering Design Timeline

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Assignment	What to do	What to hand in	Due Date
Select a	Choose a topic that you and your team	The topic that your team plans to	
Topic	would like to investigate.	investigate and why your team chose it.	
Identify a	Choose a problem that faces your	The problem you have chosen to	
Problem	community and conforms to the topic	investigate as well as why solving that	
	your team has chosen.	problem will help your community and	
		which parts of your community will be	
		directly impacted.	
Research the	Use at least ten reputable sources to	A list of at least ten sources that contain	
Problem	research the problem your team has	important information about the problem	
	chosen to investigate.	your team is investigating. With this list	
		you should also submit the information	
		you found in these sources in paragraph	
		format.	
Identify the	Using your research, determine what	A written design statement that explains	
criteria and	your design needs to have and what it	your proposed design idea and includes	
constraints	should (or can't) have.	what is necessary in your design and what	
for your		should or must be left out. This should be	
design		based on your research.	
Plan your	Develop a design plan for your	Your step-by-step design plan for your	
prototype	prototype.	prototype. Include all of the materials you	
		will need as well as all safety precautions	
		and any technologies you will use. This	
		must be approved before building your	
		prototype.	
Build a	Build a prototype of your design.	The prototype of your design. This should	
prototype		be a working model of the device that can	
		be used to solve the problem your team is	
		investigating.	
Test the	Use the prototype to see if it can solve	All of the data collected during the test.	
prototype	the problem.	Any photos or videos taken during the	
		test. Also, include a written explanation of	
		whether the data supports or refutes your	
		design statement and any sources of error	
		and how they could have affected your	
		results. Include data tables, charts, and/or	
Construct	Pasad on your tasts on your matety and	graphs.	
Construct a Conclusion	Based on your tests on your prototype,	A written conclusion that explains how	
Conclusion	write a conclusion that explains why your	and why your design will or will not solve	
	design will, or will not, work to solve the problem.	the problem. Also describe what you would do if you wanted to retest of	
	problem.	further test your design.	
Identify the	Explain how your experiments and data	A written explanation of the benefit to the	
benefit to	help solve your problem and benefit your	community of your proposed solution	
the	community and describe next steps for	including the next steps your team would	
community	further research/experimentation and	take for further research and how you	
Community	how you have or how you could	would implement your solution.	
	implement your solution in the future.	would implement your solution.	
	implement your solution in the luture.		l