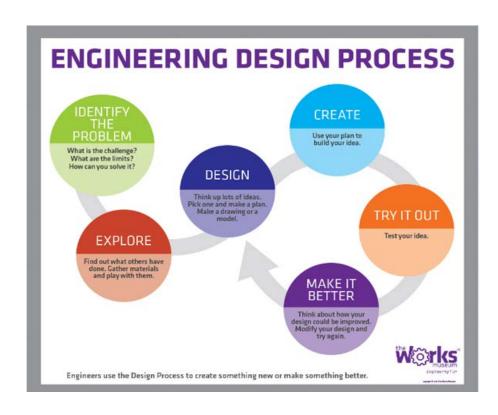


MESA DAY 2018-19

ENGINEERING LAB BOOK REQUIREMENT TEMPLATE

NAMES:(team member names)	
SCHOOL:	
CENTER:	
PROJECT:	

LEVEL (circle one): 6^{th} gr $7/8^{th}$ gr $9/10^{th}$ gr $11/12^{th}$ gr



1. IDENTIFY THE PROBLEM

What is the challenge being worked on?
What are the limits/constraints?
How do you think you can you solve it?

2. **EXPLORE**

Find out what others have done (research). Clearly list at least 5 sources (web pages, articles, books, etc.). Identify (cite) and describe each one (one sentence).

serreer.	
Source #1	
Citation:	
Description	
Description:	
Source #2:	
Citation:	
Description	
Description:	
Source #3:	
5	
Description:	
Source #4:	
Description:	
Source #5:	
Description:	

3. **DESIGN**

Brainstorm ideas (at least 3) and record them. Include a sketch or drawing for each.

each.	
Idea #1:	
Idea #2:	
Idea #3:	
iuea #3.	

	(Continued) ne idea and des	scribe a plan	for building	it (at least 5	sentences).	
Generat	e a list of mate	erials for the	prototype.			

4. CREATE Using your plan, build your prototype (at least five sentences). Include a picture of the actual project prototype built.
5. TRY IT OUT
Test your idea/prototype. Describe at least 3 trials/attempts. Use tables/charts as needed.
Test #1:
Criteria:
Results:
Test #2:
Criteria:
Results:

TRY OUT (continued)

Test #3	:	
Criteria	:	
Results	:	
		I
†		

^{*}Teams may include additional tables, graphs and charts of their own. Teams are not limited to only using the graph and table shown here.

TRY OUT (continued)

Use of mathematical concepts/equations:

Applicable math concept/equation (state concept/equation):
How was the concept/equation used?
(demonstrate use of concept/equation as it pertained to project):
Applicable math concept/equation (state concept/equation):
How was the concept/equation used? (demonstrate use of concept/equation as it pertained to project):

6. MAKE IT BETTER

How can you make the project better? What modifications will you be making (state at least 5)?

NA a differentia en //warene en esta 44 e	
Modification/Improvement #1:	
Modification/Improvement #2:	
ividanteation/improvement #2.	
Modification/Improvement #3:	
Modification/Improvement #4:	
Madification/Improvement #F	
Modification/Improvement #5:	
Build and prepare competition ready project. Include a picture below.	
Zama ama propare competición ready projecti menade a protare serem	