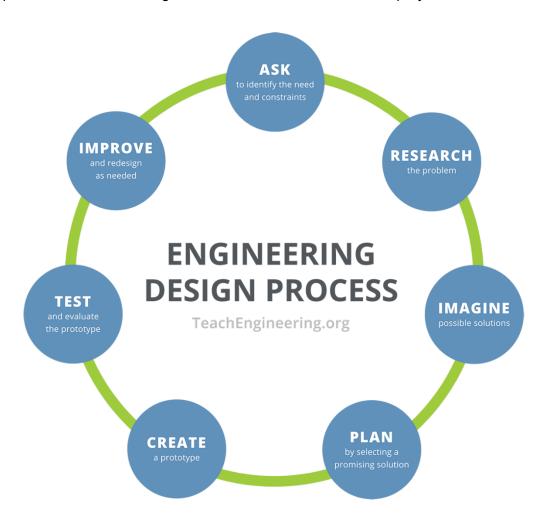
Engineering Mechanized Farm Tools Handout

Instructions: Using the Engineering Design Process, you and your team will design, create, test, and improve one of the following farm tools: deweeder, seeder, or sprayer.



1.	1. Ask – Identify the need and constraints of this problem.				



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2. Research – Research	Research – Research and learn about your chosen farm tool.			
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3. Imagine – Individuall	y sketch out four possi	ble solutions.		
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4. Plan – Have each team member share their sketches. As a team, select ONE solution. This can be one specific solution or a mixture of ideas. Draw your team's solution in the box below. Make sure to identify which materials you will be using. After everyone in the group has drawn the group's chosen design, get the teacher's approval.

5. Create – Build your project exactly as shown in your group's drawings.



Name:		Date	e:	Class:
	6.	Test – Using the testing area, test your design	ın and then answer the fo	ollowing questions.
	a.	What worked in your design, and why?		
	b.	What did not work in your design, and why?		
	•	How would you improve your design?		
	0.	Tiow would you improve your design:		





e:	Date:		Class:
7. a.	Improve – Make changes and retest your updated bid your changes improve your prototype? How		
_			
_			
b.	What worked in your updated design, and why	?	
_			
C.	What did not work in your updated design, and	why?	
	How would you improve your redesign?		
u.	riow would you improve your redesign:		





ne:	Date:	Class:
Reflection – Answer th a. What worked during		
b. What did not work d	luring this activity?	
c. What would you cha	ange if you could do this activity over	again?
d. What other applicat	ions could you see your product being	g used for?

