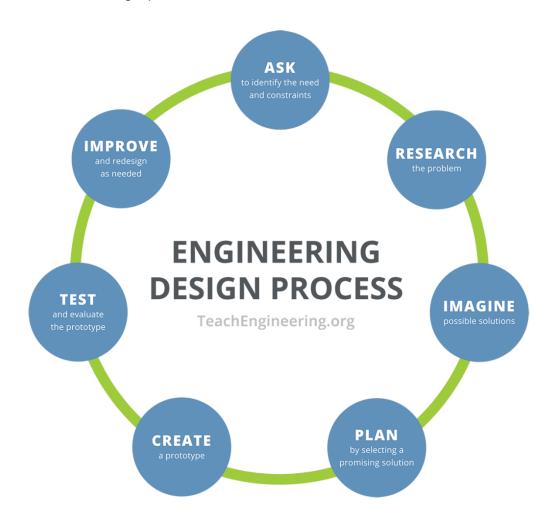
## **Engineering Design Challenge Worksheet**

**Instructions:** Using the engineering design process, you and your team will act as materials engineers who are tasked with designing a more energy-efficient cooking system to reduce energy waste when heating liquids.



1.	<b>Ask</b> – Identify the need and constraints of your problem.
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Name:	Dat	e:	Class:
2.	Research – What do we know about specific versus oil specific heat capacity activity?	c heat capacity? What did	d we learn in the water
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3.	Imagine – Individually sketch out four possil	ole solutions.	
8	а.	b.	
	).	d.	
	<i>.</i> .	u.	





Name:		Date:	Class:
4.	Plan – Have each team member share to be one specific solution or a mixture of its Make sure to identify which materials you	deas. Draw your team's solut	





ame:		Date:	Class:
į	. Create – Build your prototype as shown	in your group's drawings.	
(	. <b>Test</b> – Test your design and then answe	r the following questions.	
١	Vhat worked in your design, and why?		
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١	Vhat did not work in your design, and why?		
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١	Vhat features worked best in your classmat	es' designs?	
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:	Date:	Class:
7. Improve – Based on you you improve your design?	ur testing and your classmates' o Why?	designs and results, how wou
8. (optional) Iterate – Make Did your changes improve yo	changes and retest your update ur prototype? How?	ed prototype.
		ed prototype.
	ur prototype? How?	ed prototype.
Did your changes improve yo	ur prototype? How?	ed prototype.
Did your changes improve yo	ur prototype? How?	ed prototype.
Did your changes improve yo	ur prototype? How?  I design, and why?	ed prototype.



