Name:	 Date:	

Lending a Hand Activity – Reflecting on the Engineering Design Process Worksheet

1.	Do Now: Complete Newton's laws of motion by filling in the blanks.						
	The First Law of Inertia						
	An object <u>at rest</u> stays, unless acted upon by an unbalanced force. An object <u>in motion</u> stays, unless acted upon by an						
	The Third Law						
	For every action, there is anandaction.						
2.	List of Criteria : Next to each box, provide the expectations of your design. These are the requirements as set by the client (the doctor).						
Yo	ur design must:						
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]							
3.	Choose a Solution: Describe how your group decided upon the first design idea. In your answer, circle your use of the vocabulary: criteria constraint prototype						

	Name:	Date:
4.	Constraints – Approved Materials types of materials available to you.	s: Explain how the construction of your prototype was affected by the
5.	Constraints – Budget: Explain how materials. Discuss the challenges cre	w the construction of your prototype was affected by the cost of the eated by a set budget (\$50).
6.	Building & Testing: Explain how d process. In your answer, circle your	designing, building, and testing of your prototype was an iterative ruse of the vocabulary: iterative communicate redesign

Type of Force	Description of how the force acted on the prototype during final test
Gravity	
Normal	
Tension	
Compression	
Shear	
Bending	
Applied	
Applied Friction	
Friction Air Resistance	Laws: Describe how Newton's first law of inertia was observed in the final test of you
Friction Air Resistance Applying Newton's	Laws: Describe how Newton's first law of inertia was observed in the final test of you
Friction Air Resistance Applying Newton's prototype.	Laws: Describe how Newton's first law of inertia was observed in the final test of you Laws: Describe how Newton's third law was observed in the final test of your prototy
Friction Air Resistance Applying Newton's prototype.	

Date: _____

Name: _____

	Name:	 Date:	
10.	Redesign : Explain how y differently?	ould you do	