

Name: _____ Date: _____ Class: _____

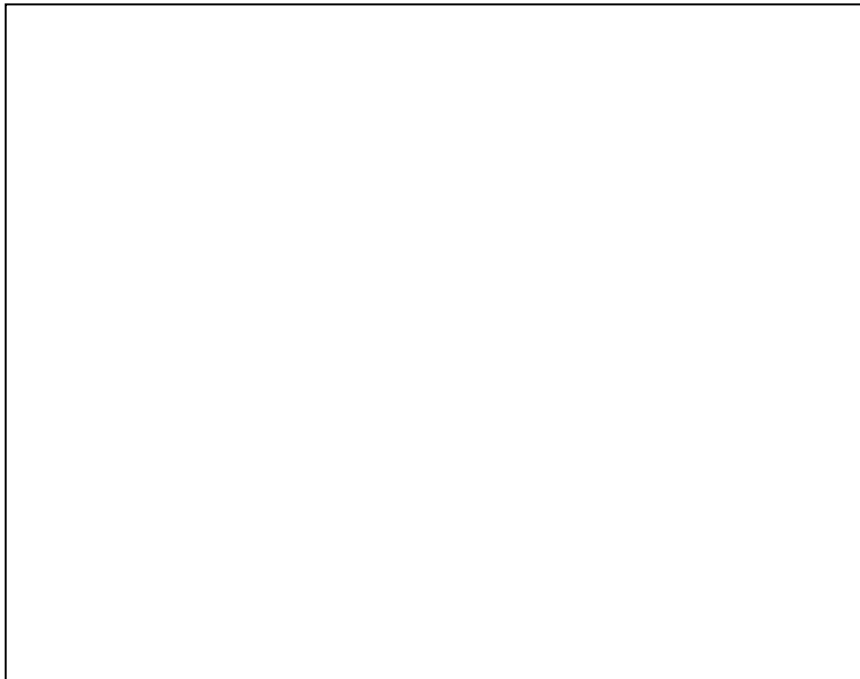
Solar Sails Worksheet

Please complete all questions and sections below, writing text answers in complete sentences.

1. Why do aerospace engineers want to develop forms of space travel other than rockets?

2. What are some of the benefits of using solar sails?

3. Draw a schematic of your solar sail below, labeling all materials needed to construct it.

Materials List	
	

Name: _____ Date: _____ Class: _____

4. Describe Newton's three laws of motion.

5. Where in this experiment did you observe each of these three laws of motion?

Testing

Complete the table below with information from each solar sail trial.

Solar Sail Design Name/Description	Trial #	Distance Traveled (m)
Design 1:	1	
	2	
	3	
Design 2 (redesign):	1	
	2	
	3	

Name: _____ Date: _____ Class: _____

Design and Improvements

1. If you could redesign your solar sail, what would you change to make it travel farther?

2. What are the most important design considerations when constructing and testing solar sails?

Fill in the Blanks

In order for solar sails to propel probes through space, _____ energy is converted into _____ energy when _____
