

Paper Rocket Test Report

Name: _____

1. Launch your rocket three times at the same launch angle. Each time, measure how far it flew. Record your measurements in the data sheet below under the space labeled "Rocket 1." Calculate the average distance for the three flights.
2. *What can you do to improve the distance your rocket travels? Can you think of any improvements for your rocket?* Design and build a new rocket. Predict how far it will fly. Record your answer below in the space labeled "Rocket 2." Launch your second rocket three times and measure its distance. Record your data below. What is the difference between your predicted and actual distance? Did Rocket 2 fly farther than Rocket 1? Write your answers below.
3. *Did your changes in the rocket improve its flight?* Design and build a third rocket. Fly it the same way you did for Rockets 1 and 2. Did Rocket 3 fly farther than Rocket 2?
4. On the back of this paper, write a short paragraph describing the improvements you made to your rockets, how well they flew, and what you can conclude from your experiments. Draw pictures to illustrate how each rocket looked.

<p>ROCKET 1 Flight Distance (in cm)</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="padding: 2px;">Flight 1</td><td style="width: 40px; height: 20px; border: 1px solid black;"></td></tr> <tr><td style="padding: 2px;">Flight 2</td><td style="width: 40px; height: 20px; border: 1px solid black;"></td></tr> <tr><td style="padding: 2px;">Flight 3</td><td style="width: 40px; height: 20px; border: 1px solid black;"></td></tr> <tr><td style="padding: 2px;">Average Distance</td><td style="width: 40px; height: 20px; border: 1px solid black;"></td></tr> </table>	Flight 1		Flight 2		Flight 3		Average Distance		<p>Make notes about the flights here.</p>
Flight 1									
Flight 2									
Flight 3									
Average Distance									

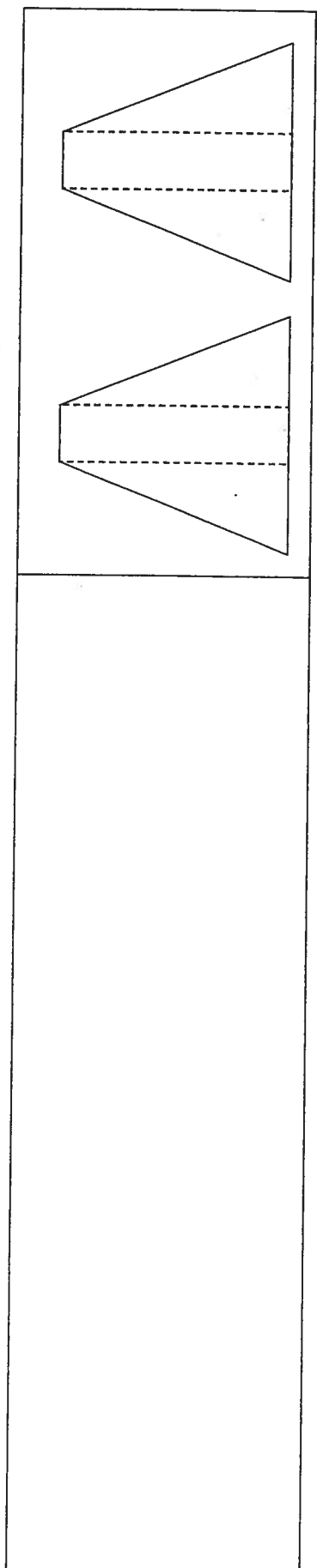
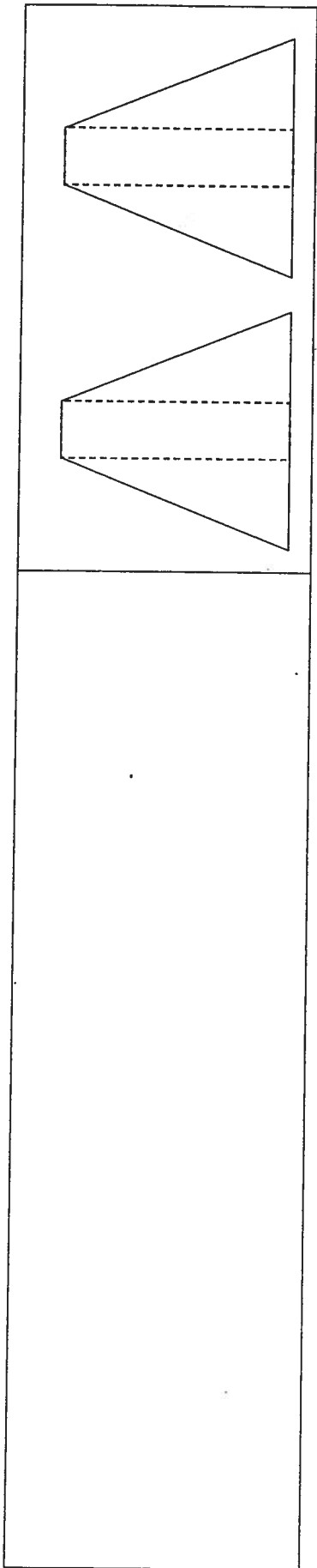
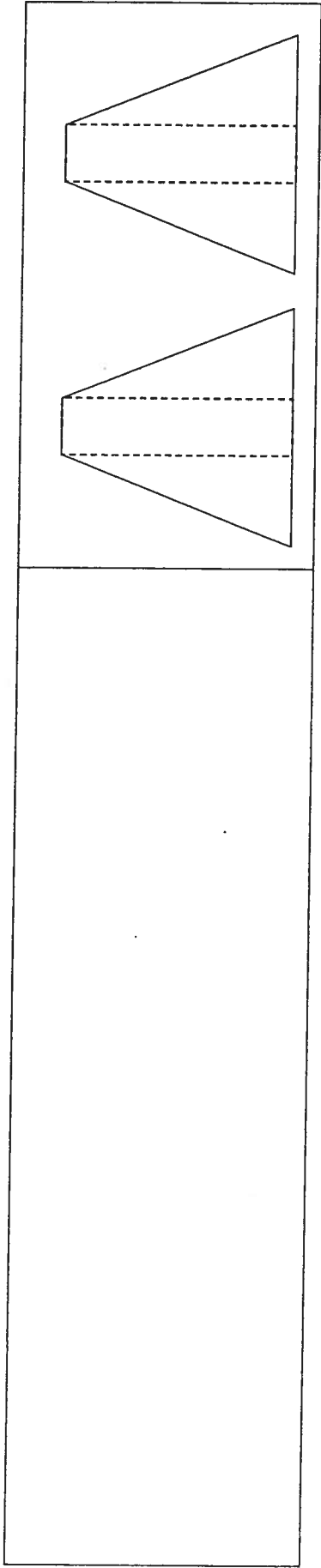
<p>ROCKET 2 Flight Distance (in cm)</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Distance Prediction</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> <td style="padding: 2px;">Flight 1</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td style="padding: 2px;">Difference between your prediction and the average flight distance</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> <td style="padding: 2px;">Flight 2</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">Flight 3</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">Average Distance</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> </table>	Distance Prediction		Flight 1		Difference between your prediction and the average flight distance		Flight 2				Flight 3				Average Distance		<p>Make notes about the flights here.</p>
Distance Prediction		Flight 1															
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<p>ROCKET 3 Flight Distance (in cm)</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Distance Prediction</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> <td style="padding: 2px;">Flight 1</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td style="padding: 2px;">Difference between your prediction and the average flight distance</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> <td style="padding: 2px;">Flight 2</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">Flight 3</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">Average Distance</td> <td style="width: 40px; height: 20px; border: 1px solid black;"></td> </tr> </table>	Distance Prediction		Flight 1		Difference between your prediction and the average flight distance		Flight 2				Flight 3				Average Distance		<p>Make notes about the flights here.</p>
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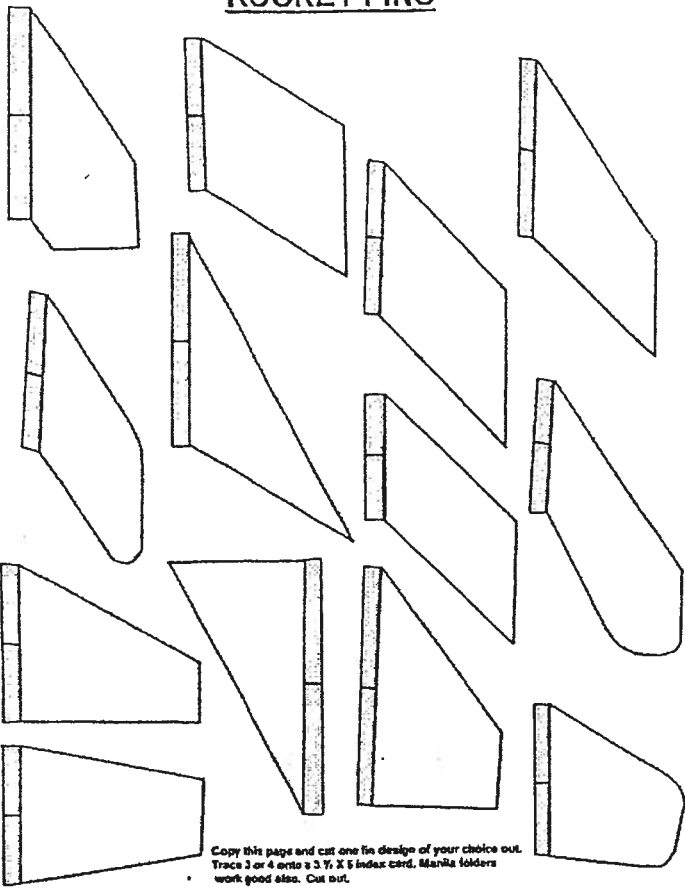
ROCKET 4	Flight Distance (in cm)		Make notes about the flights here.
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	Flight 2	<input type="text"/>	
	Flight 3	<input type="text"/>	
	Average Distance	<input type="text"/>	

ROCKET 5	Flight Distance (in cm)		Make notes about the flights here.		
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	Difference between your prediction and the average flight distance	<input type="text"/>		Flight 2	<input type="text"/>
				Flight 3	<input type="text"/>
				Average Distance	<input type="text"/>

ROCKET 6	Flight Distance (in cm)		Make notes about the flights here.		
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	Difference between your prediction and the average flight distance	<input type="text"/>		Flight 2	<input type="text"/>
				Flight 3	<input type="text"/>
				Average Distance	<input type="text"/>

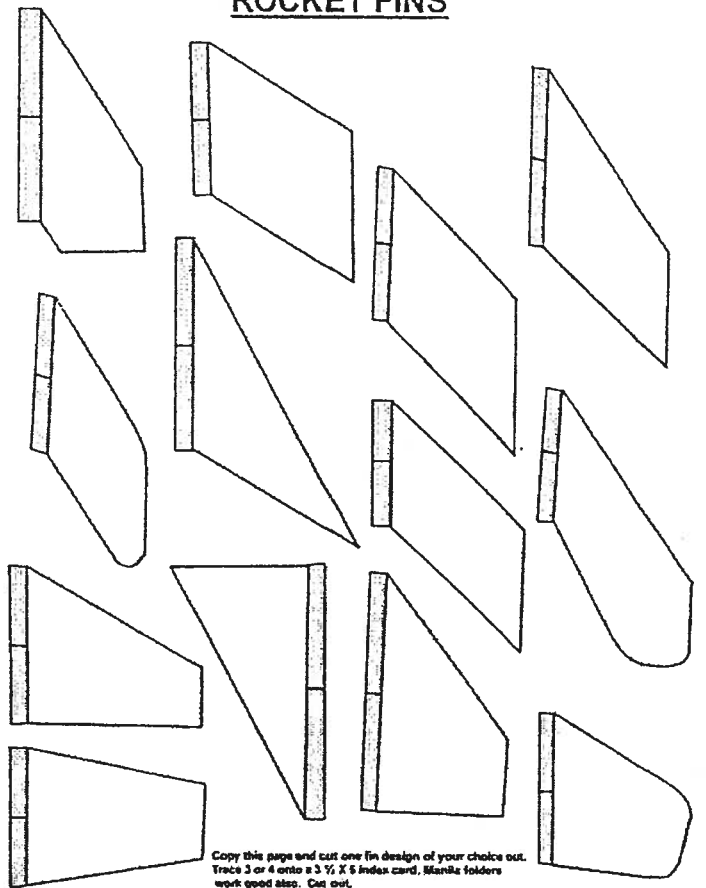


ROCKET FINS



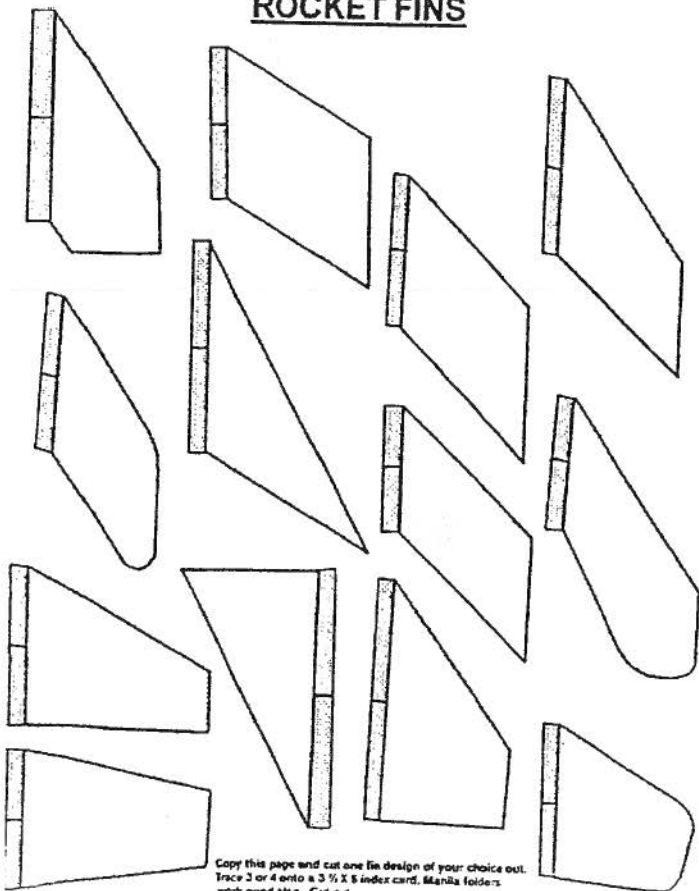
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work good also. Cut out.

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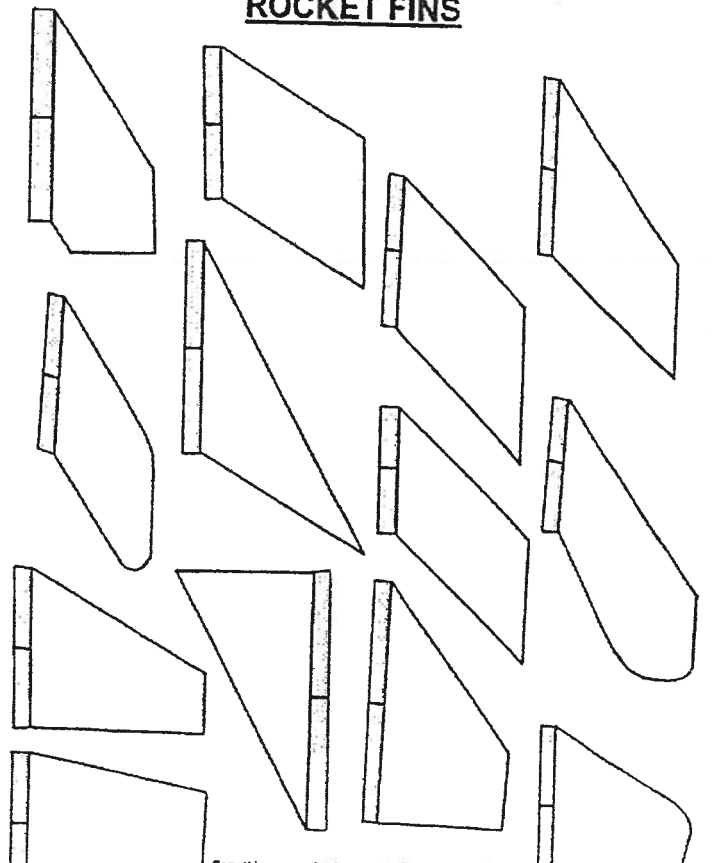
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