

Gravity Racers! Investigating Motion Design Challenge

Name _____ Date _____

Follow the steps to design, build, and test your own gravity powered vehicle...



<p>Problem</p>	<p>State the problem in your own words.</p>			
<p>Brainstorm Several Plans or Design Solutions</p>	<p>Design and sketch more than one idea for your vehicle.</p>			
<p>Blueprint of Design</p>	<p>Choose one design plan. Draw and label a sketch to use as a blueprint.</p>	<p>Use graph paper.</p>		
<p>Materials</p>	<p>Choose from the materials listed here</p>	<p>Cardstock Construction paper Tissue paper Cardboard milk cartons</p>	<p>Dowels Paper clips Pipe cleaners Straws Wheels Glue or tape</p>	<p>Styrofoam trays Spools Scissors Craft sticks Plastic bottles</p>

Procedure	Carry out the plan. Keep notes about the problems you have	
Check List	<p>Yes No</p> <p>Yes No</p> <p>Yes No</p>	<ul style="list-style-type: none"> ○ Is your vehicle propelled solely by rolling down an inclined ramp? ○ Does your vehicle have a chassis no smaller than 8 centimeters wide and no longer than 30 centimeters from bumper to bumper? ○ Can your vehicle roll down the ramp and travel for at least 100 centimeters?
Results	<p>Evaluate your plan.</p> <p>How might you change your design?</p>	