


Students	Project	Materials	Link /video
<p>GROUP 1</p> <p>Sebastian Mejía</p> <p>Valeria Benítez</p> <p>Melannie Cader</p> <p>Finees Galán</p> <p>Angel Tobar</p>	<p>Marble project</p>	<p>Planets pictures(or plastic planets)</p> <p>7 Pan lids (different size) with a hole in the center big enough for the marble.</p> <p>5 marbles</p> <p>Paint</p> <p>Paintbrush</p> <p>A piece of wood (1mx50cm)</p> <p>Wood sticks, long pieces of wood for the frame</p> <p>Hot glue gun</p> <p>7 Glue sticks</p> <p>Wedges</p> <p>20 Nails</p> <p>a hammer</p> <p>a disposable cup or container</p> <p>cardboard to make tube-like shapes or pieces of plastic (pvc) tubing</p> <p>cutters</p> <p>Optional: any other material you would like to use to decorate it.</p>	<p>http://www.youtube.com/watch?v=Jfa54s48y6g</p>

<p>GROUP 2</p> <p>Rina Lemus</p> <p>Asael Romero</p> <p>Daniella Arévalo</p> <p>Sarah Tamacas</p>	<p>Balancing bicycles</p>	<p>Wire</p> <p>30 Straws</p> <p>Cardboard</p> <p>Scissors</p> <p>4 Heavy nuts or ring magnets</p> <p>Thread</p> <p>Masking tape</p> <p>10 toothsticks</p> <p>6 plastic bottle cups</p> <p>Pliers</p> <p>3 small plastic balls</p> <p>80 w iron</p> 	<p>http://www.youtube.com/watch?v=wUqZ87BnAGA&feature=related</p>
<p>GROUP 3</p> <p>Camila Díaz</p> <p>Marcela</p>	<p>simple machines project</p>	<p>Small car</p> <p>Flexi wire</p> <p>pliers</p> <p>Pulley</p>	<p>http://www.youtube.com/watch?v=l1oCpWZk8pk&feature=related</p>


Rodezno		String	
Oscar Muñoz		Wood sticks	
Alejandra Quintanilla		2 pieces of wood for the levers	
		Tape	
		2 cans to make the "screws"(as shown in the video)	
		A piece of cardboard	
		Paper to wrap the cans.(or paint)	
		White cardboard	
		5 marble	
		A golf ball	
		25 balloons	
		Metal or plastic grid	
		3 wedges	
		1 incline plane	
		Hot glue gun	
		Hot glue	
		Nails	
		Hammer	
		tape	


<p>GROUP 4</p> <p>Fernanda Rossi</p> <p>Nicolle Pérez</p> <p>Gustavo Hernandez</p> <p>Merely Guerrero</p>	<p>Rubber car Project</p>	<p>Paint paintbrush</p> <p>2 soda cans</p> <p>Hot glue gun Hot glue sticks</p> <p>30 Rubber bands</p> <p>Polystyrene</p> <p>Cardboard</p> <p>Scissors</p> <p>masking tape duct tape</p> <p>hacksaw</p> <p>measuring tape</p> <p>2 Wood sticks with holes like shown in the video</p> <p>6 thin round wood sticks(same length)</p> <p>(optional: any other material to decorate it)</p>	<p>http://www.youtube.com/watch?v=667GuZ-Oryl&feature=related</p>
<p>GROUP 5</p> <p>Sofía Castillo</p> <p>Diego Coppo</p>	<p>Merry-go-round project</p>	<p>Motors will be added to this project</p> <p>4 meters wire and sleeve</p>	<p>http://www.youtube.com/watch?v=WeSwzDqznO8&feature=related</p> <p>http://www.youtube.com/watch?v=a60-</p>

Florence Menéndez Katherine Ramos		Corrugated sheet cardboard 35 skewer sticks CD box 10 rubber bands A 1 mx50 cm wooden base 4 toy car motors 1 m. wire 1.5 volts batteries (4) Hot glue gun Hot glue Plastic disk 6 Plastic cups 4 disposable cups 10 straws Scissors Pliers Wire cutters Plastic box stand 3 tube lids (gears) Ball pen refill	dJAo5yU&NR=1&feature=endscreen http://www.youtube.com/watch?v=i9q2jRQkua8&NR=1&feature=endscreen
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		(Optional: any other material to decorate it like an amusement park)	
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<p>GROUP 1</p> <p>Miguel Vidales</p> <p>Luis Bolaños</p> <p>Joe Padilla</p> <p>Monica Arriaza</p>	<p>Roman catapult</p>	<p>60cmx60cm wooden base</p> <p>Paint (different colors)</p> <p>Paint brush</p> <p>50 lollipop sticks</p> <p>15 rubber bands</p> <p>25 nails</p> <p>Hammer</p> <p>Hacksaw</p> <p>10 Long sticks of wood(60 cm)</p> <p>Hot glue gun</p> <p>Glue sticks</p> <p>A big piece of cardboard or a big circle of wood to make a dartboard.</p> <p>Plastic spoons</p> <p>A string</p> <p>A cup</p>	<p>http://www.youtube.com/watch?v=oBMcRdT-AQ&feature=related</p> <p>http://www.youtube.com/watch?v=Kcdi9PHo3nM&feature=related</p>

		<p>Velcro balls Velcro for the dartboard</p>  <p>Any other material, objects to decorate the base or your Roman catapult!</p>	
<p>GROUP 2</p> <p>Sabrina Cordón</p> <p>Carmen Morán</p> <p>Alfredo Reyes</p> <p>Fabiola Molina</p>	<p>Tin pop pop boat</p>	<p>Paint</p> <p>2 tins Brass pipe 3x4 mm</p> <p>A magnet</p> <p>File and abrasive paper</p> <p>Iron cutters</p> <p>Ruler</p> <p>Drill</p> <p>Two 120mm pieces of brass pipe</p> <p>A torch</p> <p>80 w iron</p>	<p>http://www.youtube.com/watch?v=p-M9KUbxkfk</p>

		 <p>c-clamp epoxy</p> <p>masking tape</p> <p>cotton string</p> <p>a little nut</p> <p>olive oil</p> <p>goggles</p> <p>lighter</p> <p>Plumbing solder</p> <p>Screwdriver</p>	
<p>GROUP 3</p> <p>Priscila Sanabria</p> <p>Gerardo Tudó</p> <p>Sebastián</p>	<p>Tornado</p>	<p>cardboard</p> <p>plastic</p> <p>This can be plastic wrap, Saran wrap, clear plastic on a roll, or a sheet of clear, hard plastic. The hard kind will make a better window, but is more expensive if you have to buy it.</p> <p>black paint</p>	<p>http://www.youtube.com/watch?v=gb8V-po-BXg</p> <p>http://www.youtube.com/watch?NR=1&v=JfmZslwCwQw&feature=endscreen</p> <p>Print the instructions: http://www.tornadoproject.com/cellar/workshop.htm</p>

Martínez Sofía Escalante		<p>This is for the inside of the box. Latex paint dries very quickly and cleans up easily, so that is what we use. If you don't have paint or don't want to paint, you can use some other black background material that can be secured to the inside of the box. However, the duller the finish, the less likely it is to reflect light back and the easier the vortex will be to see.</p> <p>duct tape Duct tape will be used to connect the pieces of cardboard so that they create a box.</p> <p>hot plate The higher the wattage, the quicker it will heat the water.</p> <p>pan You can experiment to see which kind of pan gives you the best results. We use a cake pan.)</p> <p>water The steam from the boiling water will be the "tracer" that will allow you to see the vortex that forms. The more "tracer" you have, the easier it will be to see the vortex. meter stick or yard stick</p> <p>tool to cut cardboard tool to cut plastic paint brush</p> <p>small fan</p> <p>dry ice</p> <p>cooking gloves</p>	
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		<p>dish</p> <p>optional: any material, objects to decorate the cardboard frame, glue sticks and hot glue gun.</p>	
<p>GROUP 4</p> <p>Sonia Vega</p> <p>Stanley Cruz</p> <p>Enrique Ruiz</p> <p>Agnes Salmerón</p>	<p>Hydro-electric Generator</p>	<p>Tools</p> <ul style="list-style-type: none"> • Electric drill, with ¼” drill bit • Scissors • Electrical tape • Ruler • 10 cm (3.5 inch) nail or awl • Hot glue gun, with 3 glue sticks • White glue • Utility knife • Pencil sharpener • Permanent felt tip marker • Magnetic compass • Wire cutters • Gloves • Safety glasses <p>• Paper Templates: download the templates separately and print according to the printing instructions in the following link</p> <p>http://www.re-energy.ca/docs/hydroelectric-generator-cp.pdf</p> <ul style="list-style-type: none"> • 4L plastic jug (rectangular style, from vinegar, windshield washer fluid, or similar-see illustration) 	<p>http://www.youtube.com/watch?v=6Uc7jKDuxwU&feature=related</p> <p>http://www.re-energy.ca/docs/hydroelectric-generator-cp.pdf</p>

		<ul style="list-style-type: none"> • 10 plastic spoons • 1 large cork (3.5 to 5 cm) • Enameled magnet wire, 24 gage (approx. 100 m) • Foamcore or heavyweight corrugated cardboard (approximately 22 cm by 30 cm) • 6 mm (1/4 inch) wooden dowel (20 cm long) • 4 ceramic or rare earth magnets (18mm or larger) • clear vinyl tubing (6 cm long, ¼" inside diameter) • 4 brass paper fasteners 	
<p>GROUP 5</p> <p>Mario Ramírez</p> <p>Jazmín Batarse</p> <p>Karla Sandoval</p>	<p>Paper roller coaster</p>	<p>Paint Paintbrush</p> <p>Wooden base(60x70 cm)</p> <p>Wooden or plastic sticks</p> <p>Card stock (cover stock)/ different colored paper.</p> <p>Tape</p> <p>Scissors</p> <p>Rulers string glue 10 marbles hot glue and hot glue gun</p> <p>Optional: any other material, objects to decorate it.</p>	<p>http://www.youtube.com/watch?v=CSdtMdj7k68</p>
<p>GROUP 6</p> <p>Verónica Calderón</p>	<p>"Pour me coke" project</p>	<p>Dominoes</p> <p>2 White golf balls</p>	<p>http://www.youtube.com/watch?v=UD6x_bLtGmW&feature=related</p>

Andrea Acevedo Marcus Álvarez		Yellow golf ball Billiard ball Carton A plastic bottle scissors 75 nails Hammer 1.3m x1 m piece of plywood Mouse trap String A piece of rope Soda cans A tube A funnel A plastic cup Long pieces of wood for the ramp Ruler 100 rubber bands Pulley Weight counter	
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<p>GROUP 7 Daniel Vides Ayman Guandique Paola Cáder Fernanda López</p>	<p>Syringe mechanical arm</p>	<p>20 cm x 20 cm (8" x 8") wooden base with a hole in the center(6mm) 25 cm (10") long block with groove at one end (part A) 20 cm (8") long block with tongue joints at both ends (part B) 20 cm (8") long block with a groove at one end (part C) 2 pieces of 3 mm (1/8") diameter dowel 1 piece of 6 mm (1/4") diameter dowel 1 cardboard box Short pin or finishing nail (optional) Empty coffee can without lid Styrofoam balls Duct Tape String Pieces of wood for the gripper A wood disc with a hole in the center (6mm) which will be attached to the base.</p> <p>2.5 meters tubing 8 plastic syringes (20ml) 4 syringes (10ml) 10 rubber bands Nails Screws Bolts and nuts 2 Styrofoam balls A box A bottle 2 empty film canisters</p>	<p>http://www.youtube.com/watch?v=6k7gNRMvS-g&NR=1&feature=endscreen</p> <p>http://www.youtube.com/watch?v=Qeg0y5AAmtI&feature=related</p>
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