

Introduction to Engineering

Catalogue Number	77-3095-0000
Category	Manufacturing and Engineering
Duration	15 Hours

Hardware	N/A
Software	N/A
Additional Materials	<p>Access to the Internet or library</p> <p>8.5 inches x 11 inches paper white (one per team member)</p> <p>8.5 inches x 11 inches paper colored (one per team)</p> <p>0.5 inches wide x 12 inches long piece of scotch tape</p> <p>Scissors</p> <p>Ruler</p> <p>Pencil</p> <p>Balloon Racer:</p> <p>Notebook (dedicated to team and challenge)</p> <p>Pen/pencil</p> <p>Safety glasses</p> <p>Graph paper and/or CAD system for design sketches</p> <p>Ruler, tape measure, or architect's scale</p> <p>Wood (lightweight)</p> <p>Cutting tools</p> <p>Cardboard</p> <p>Glue, fasteners</p>

<p>Additional Materials</p>	<p>Bridge - Fixed:</p> <p>Notebook</p> <p>Pen/pencil</p> <p>Graph paper or CAD system for design sketches</p> <p>Modelling kit (K'NEX, Erector Set, VEX, etc.)</p> <p>Ruler/tape measure</p> <p>String/cable/chain</p> <p>Clothes hangers</p> <p>Dowel rods</p> <p>Balsa/bass wood</p> <p>Cutting tools Tape</p> <p>Cardboard</p> <p>Glue/fasteners</p> <p>Cardboard Chair:</p> <p>Notebook (dedicated to team and challenge)</p> <p>Pen/pencil</p> <p>Safety glasses</p> <p>Graph paper and/or CAD system for design sketches</p> <p>Recycled corrugated cardboard</p> <p>Glue, fasteners</p> <p>Ruler, tape measure, or architect's scale</p>
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Additional Materials	<p>Flight Endurance:</p> <p>Notebook</p> <p>Pen/pencil</p> <p>Graph paper or CAD system for design sketches</p> <p>Ruler/tape measure</p> <p>Cutting tools</p> <p>Glue/fasteners</p> <p>Rubber bands</p> <p>Propeller and accessories</p> <p>Balsa wood</p> <p>Paper or mylar</p> <p>Landing gear</p> <p>Rube Goldberg Machine:</p> <p>Notebook</p> <p>Pen/pencil</p> <p>Graph paper for design sketches</p> <p>Design hardware</p> <p>Two sheets of paper to be stapled</p>
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