

NASA SIMPLE MACHINES SHOEBOX ROVER - SUPPLY PLANNER

Fill in the following chart to plan your supplies. Download PDFs from our website.

Total Number of Students or Makers: _____

SUPPLIES	#/MAKER	TOTALS	NOTES & ORDERING RESOURCES
Shape Templates (PDF)	for class		Print 3D shape and lever templates onto colored cardstock. We like Astrobrights.
Marking Templates (PDF)	for class		Print onto 8 1/2" x 14" legal paper. We recommend mounting them onto a rigid surface like matte board or file folders to reuse them.
Shoebboxes	1/student or group		You can collect recycled shoebboxes with lids. Or, you can order 4"x7"x11" shoebboxes from: www.uline.com
2" Foam Circles (Or cut from cardboard)	2-4/maker		You can order 6mm thick pre-cut foam circles or cut your own from cardboard. Order from: www.inspire-create.com
1.5" Foam Circles (or cut from cardboard)	2-4/maker		You can order 6mm thick pre-cut foam circles or cut your own from cardboard. Order from: www.inspire-create.com
1" Foam Squares	2-4/maker		You can order from: www.amazon.com
Bamboo Skewers	8-10/maker		We recommend the thicker 12" x 3.5 skewers for strength. Get from a grocery store. Order from: www.smartpackusa.com
Cake Skewers or Toothpicks	for class		You might also want a variety of thin skewers or toothpicks for making mini instruments.
Large Pony Beads	12-16 / maker		You can get large pony beads at Walmart or a craft store. Make sure they fit onto your skewers.
Small Pony Beads	for class		Collect small pony beads or assorted beads for class.
Mini Brads	8-10/maker		Get from a craft store or order from: www.amazon.com
Brass Brads	2-4/maker		Get various sizes from an office supply store or at Amazon.
Paper Straws	6-8/maker		Get from a party shop or order from: www.amazon.com
Recycled Lids	for class		Collect recycled plastic lids, CDs or caps for wheel design.
Paperclips	for class		Get a variety of metal and coated paperclips.
Popsicle Sticks	for class		Get a variety of jumbo, regular and mini sticks for class.
Plastic Bobbins	1-2/maker		Sewing bobbins are fantastic to design pulley systems. Get at: www.amazon.com
String or Nylon Cord	for class		Great for designing pulley systems.
Craft & Recycled Items	for class		You might also want a variety of craft items: pompom balls, pipecleaners, spools, googly eyes, buttons, recycled boxes, etc.

TOOLS FOR CLASS	NOTES: Adult Supervision Required For Tool Use
Hole Punches or Thumb Tacks	You can order Adjustable Hole Punches at: www.harborfreight.com
Scissors	For class
Pencils	For class
Hot Glue & Stick Glue	We recommend setting up a hot glue station with multiple glue guns.
Embroidery Needles	Use for scoring 3D shapes. Get at craft store or Walmart.
Rulers	Encourage math & measurement!
Wood Cutting Tools	Pruning shears, diagonal cutters or large wire cutters.