

This popular activity is an exercise in creative problem solving. Middle school and high school students will be challenged to design and construct their own wooden bridges, then enjoy the thrill of destructive testing. They can then determine their bridge's efficiency to determine the best design.



BRIDGE PACKS BY AC SUPPLY

Manufactured to our high quality standards, these class packs include enough material for 25 students. Each pack includes Balsa** or Basswood**, 1 32oz. bottles of colored wood structured glue, 25 2 oz. bottles with applicator tips, New graph paper, and instructions for each student. The teachers guide "Teaching with Model Bridge Building Programs" is also included.

**Balsa is 1/8 x 1/8 x 24 and Basswood is 3/32 x 3/32 x 24 for easier cutting

BALSAWOOD BRIDGES

MID8661 375 pc 25 pk
MSRP \$118.99.. **\$71.95**

BASS BRIDGES

MID8651 375 pc 25 pk
MSRP \$122.99.. **\$73.95**

Bridge Class Packs by "MIDWEST PRODUCTS"



Packs include enough material for 24 students to build and test their very own bridges. It comes with 360 pcs BALSA* or BASSWOOD**, 24 bottles of glue, 24 sets of instructions, and the teachers guide "Teaching with Model Bridge Building Programs."

MID8650 Basswood** 24 pack MSRP \$112.99. **\$68.95**

MID8660 Balsa* 24 pack MSRP \$119.99..... **\$72.95**

*Balsa is 1/8 x 1/8 x 24 **Basswood is 3/32 x 3/32 x 24

BRIDGE BUILDING DVD

A 12 minute DVD which follows a school class throughout the model bridge building experience. Lecture, design, construction, and destructive testing are surveyed.

MID560 Bridge DVD MSRP \$22.49 **\$12.95**

25% quantity discounts available,
See pgs. 58 - 60 for details

BASSWOOD PIECES

Use these pieces to construct structural bridges or other projects. See wood pages pg. 58 - 60 for more sizes and volume discounts.

All basswood pieces come in 24" lengths.

MID4033	3/32 x 3/32	60 pcs	MSRP \$17.40	\$14.79
MID4044	1/8 x 1/8	48 pcs	MSRP \$13.92	\$11.84
MID4066	1/4 x 1/4	20 pcs	MSRP \$15.80	\$13.43
MID4304	1/8 x 3	15 pcs	MSRP \$32.85	\$27.93
MID4306	1/4 x 3	10 pcs	MSRP \$31.90	\$27.12

BALSA PIECES

Use these pieces to build structural bridges or other projects.

These pieces come in 24" lengths.

36" Balsa available on Balsa page 58.

see "Balsa" section for more sizes and quantity discounts.

MID60332	3/32 x 3/32 x 24"	50 pcs	MSRP \$14.75	\$8.45
MID60442	1/8 x 1/8 x 24"	50 pcs	MSRP \$16.99	\$9.00
MID60662	1/4 x 1/4 x 24"	20 pcs	MSRP \$16.79	\$8.99

Density graded 1/8 x 1/8 x 36 available for competition. See pg 58

www.acsupplyco.com

INTRO TO STRUCTURES & BRIDGES



K'NEX REAL BRIDGE BUILDING

- Build seven 5' long replicas of Real World Bridges. One per bridge type, 2 at a time.
- Includes 2282 pieces to support 6 - 8 students working in teams of 3 - 4.
- Curriculum included offers key features and characteristics of each bridge type, background, information and statistics on each, investigative activities and building challenges for each of the bridge types written to Middle School National Standards in Science and Technology. **Grades 5 - 8.**
- Investigate how different bridge types hold their loads
- Determine and calculate costs involved with Bridge Building
- Explore the history of each of the Real World Bridges

KNX78680 MSRP \$299.99..... **\$179.99**

K'NEX INTRO TO STRUCTURES BRIDGES

- Build 13 different bridge models, one at a time.
- Set includes building instructions with real - life photo and key facts
- Models demonstrate 7 Key bridge types: beam, truss, arch, cantilever, suspension, cable-stayed, and moveable/bascule.
- 207 pieces support 3 students working in a team: **Grades 3 - 6.**
- Comes packaged in a strong plastic storage case with dividers.

KNX78640 MSRP \$53.99 **\$33.99**

BONUS - Teachers guide on CD now included in every Intro to Bridges Set!

ENGINEERING & STRESS ANALYSIS



Free
Sample

MODULE
CONSUMABLE

These 2" x 8" balsa blocks are used in "Engineering and Stress Analysis Module." They have a 3/8" hole drilled in the center. To verify if it is right for you, call for a free sample.

AC6206A	1/4" x 2" x 8" with 3/8" hole	MSRP \$1.89	\$1.19 ea
100 for	MSRP \$1.89	\$1.09 ea	
AC6206AX	1/4" x 2" x 8" without hole	MSRP \$1.39	\$0.94 ea
100 for	MSRP \$1.39	\$0.83 ea	
AC6209A	1/2" x 2" x 8" with 3/8" hole	MSRP \$2.59	\$1.64 ea
100 for	MSRP \$2.59	\$1.53 ea	

CHOPPER



CHOPPER 2



CHOPPER AND DELUXE CHOPPER 2

Use these devices to make exact straight or angle cuts.

NWS4941	Chopper	MSRP \$35.49	\$25.95
3+	MSRP \$35.49	\$22.95	
NWS49154	Replacement blades chopper	8pcs MSRP \$5.49	\$3.35
NWS49164	Replacement blades chopper	75pcs MSRP \$32.99	\$19.99
NWS6941	Deluxe Chopper 2	MSRP \$49.95	\$35.95
3+	MSRP \$49.95	\$31.95	

EASY CUTTER & SUPER EASY CUTTER

This hand-held device is great for making precision mitered cuts. It will cut up to 1/2" balsa or basswood without crushing.

MID1126	Easy Cutter	MSRP \$27.99	\$20.95
3+	MSRP \$27.99	\$17.95	
MID1128	Super Easy Cutter "New style"	MSRP \$23.99	\$16.95
3+	MSRP \$23.99	\$14.95	

LIFT BRIDGE CLASS PACK



LIFT BRIDGE BY MIDWEST PRODUCTS

This kit is a scale model of a "Bascule" bridge. - a drawbridge that has a counterweight that continuously balances the bridge span. It is an excellent subject to use for introducing the concepts of center of balance, equilibrium, and the lever as a simple machine to General Science, Physical Science or Physics students. Quick and easy to build, the kit contains precision laser-cut parts, all hardware, adjustable counterweight and roller platform, and Includes a comprehensive Teachers guide on CD. This guide has a wealth of information including National Science Standards for this product and Lesson plans written for 2 grade levels, 5 - 8 and 6 - 12 Specs: Length - 12.75", width - 4.75", Height - 5.25"

MID8670 12 pc class pk MSRP \$208.99 **\$125.99**
MID86702 Single pk No guide MSRP \$18.79.... **\$11.19**



TOWER CLASS PACK

This class pack introduces students to the design and principles used in constructing towers. It comes complete with enough wood, 1/8 x 1/8" balsa or 3/32 x 3/32 basswood, colored or white tacky glue, B size graph paper, and detailed student guide for each of 24 or 25 students to build a tower.

BASSWOOD 3/32 x 3/32 MSRP \$142.99

TAC8675 Tower w/colored glue 25 pk **\$85.95**

BALSA 1/8 x 1/8

TAC8680 Tower w/colored glue 25 pk

MSRP \$142.99 **\$85.95**

MID8655 Tower w/white glue 24 pk

MSRP \$132.95 **\$76.95**



PLASTIC "CUT ALL" KNIFE

Hexagon shaped knife which won't roll on or off your table. Comes with 1 - #11 blade

EX16034 Cut-all w/cap MSRP \$3.49 **\$2.09**

EX18030 Cut-all w/cap 6 pk MSRP \$20.94..... **\$11.10**

NO.1 KNIFE & GRIPSTER ALL W/ SAFETY CAP

EX16001 No 1 knife MSRP \$3.39 **\$1.99**

EX15001 No 1 knife w/ 5 #11 blades MSRP \$5.19 .. **\$2.99**

EX16018 Gripster anti roll knife MSRP \$6.59..... **\$3.99**

NO.11 REPLACEMENT BLADE

Fits No.1 knife and cutall knife.

EX20011 5 blades MSRP \$3.19 **\$1.99**

EX23011 15 blades MSRP \$7.49 **\$4.55**

EX22611 100 blades MSRP \$47.99 **\$29.96**



TRUSS ROOF BUILDING KIT



A FRAME CABIN



2 STORY TOWNHOUSE

Refill kits
Comes with foam base,
wood, and nails only!



STANDARD FRAMING KIT

IDENTICAL CONSTRUCTION CO.

Framed in accordance with building codes, these homes provide "on-the-job training" in the classroom. Your students will learn the function of each piece of lumber in a wall frame and come to understand a floor plan. Built of balsa to 3/4" = 1' scale, these teaching models include:

- Custom designed mitre jig
- Cutting tools
- Tape measure
- "Nails"
- Layout blue and red pencil
- Work board/display base
- Well written instructions
- A complete set of working drawings
- Lumber sized to dimensions that a building contractor would specify.
- The 2 x 4 stud lumber is precut to length. The other lumber comes in the standard lengths that would come from a lumber yard.

MID550 Standard Framing Kit #100 MSRP \$152.99 **\$94.99**

Volume price * 4 assorted pcs **\$91.99**

MID550RF** Refill kit foam base, wood and nails **\$80.99**

MID551 Truss Roof Building Kit #104 MSRP \$152.99 **\$94.99**

Volume price * 4 assorted pcs **\$91.99**

MID551RF** Refill kit foam base, wood and nails **\$80.99**

MID552 2 Story Townhouse Kit #105 MSRP \$152.99 **\$94.99**

Volume price * 4 assorted pcs **\$91.99**

MID552RF** Refill kit foam base, wood and nails **\$80.99**

MID553 A Frame Cabin Kit #101 MSRP \$152.99..... **\$94.99**

Volume price * 4 assorted pcs **\$91.99**

MID553RF** Refill kit foam base, wood and nails **\$80.99**

****ALL REFILL KITS COME WITH FOAM BASE, WOOD AND NAILS ONLY**

MSRP ON REFILLS IS \$129.99!

* Volume price received when 4 or more assorted house framing kits are ordered to one location.



MITRE BOX SET

Slotted sides guide saw to make accurate mitre joints. Grooved base holds wood in place when sawing. Includes: Mitre box, #5 handle, & saw
EX55666 MSRP \$24.99..... **\$15.56**



RAZOR SAW SET

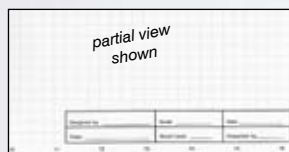
Comes with fine, and coarse blades, as well as No.5 handle. Handle shown in mitre box set to the left.

EX55670 Razor saw set MSRP \$18.69 **\$9.95**

KNIFE AND TOOL SET

For cutting wood, board, paper, plastic, film/acetate, and cloth. Includes No.1 knife with No.11 blade, No.2 knife with No.2 blade, No.5 knife with No.19 blade, and 10 assorted blades in a classy wood case

EX44282 MSRP \$25.99..... **\$16.96**



GRID PAPER

"B" size graph paper with 1/4" grids used in our bridge building class packs, 11 x 17 in size. New version with name block!

100pcs shrunk wrap in a pack.

GRP100 MSRP \$18.99 **\$11.99**

"T" - PINS

Use these nifty T shaped pins for holding down wood on projects without destroying your finger tips. Made of thin material so as to not make large holes in your project.

AC252 T pins 100 pcs MSRP \$7.49..... **\$4.47**



GRIP PINS

Use these nifty pins for holding down wood on projects without having to pierce the wood. Wide shoulder holds bridge corners, tower assemblies or wing ribs 2 and 3 pieces at a time.

MID587 Grip Pins 50 pcs MSRP \$9.49 **\$5.87**

DRAGSTER KITS



CO₂ DRAGSTERS

CARTRIDGE INCLUDED!

All packaged cars now come in reusable boxes

METRIC/LSRAV DRAGSTER

Our dragster kits meet all TSA rules, complete with the following:

- 1 Body blank
12" x 1-5/8" x 2-3/4" (tapered) pre-drilled for CO₂ cartridge
- 1 Styrofoam blank (optional)
- 2 Rear wheels
- 2 Front wheels
- 2 Axles
- 1 8gr CO₂ cartridge (compatible with all current "starters")
- 4 Brass washers
- 2 screw eyes
- 1 Plastic straw
- 1pc Sandpaper
- 1 Instruction booklet (covers both Metric and LSRAV dragsters)
- 1 Storage box

BASSWOOD KITS (12")

ACM150	Metric/LSRAV kit	MSRP \$8.29	\$4.99ea
100 +	MSRP \$8.29		\$4.89ea
ACM1509	Metric/LSRAV w/o foam	MSRP 7.79	\$4.79ea
100 +	MSRP \$7.79		\$4.69ea

BALSA KITS (12")

ACM250	Metric/LSRAV kit	MSRP \$9.39	\$5.69ea
100 +	MSRP \$9.39		\$5.59ea
ACM2509	Metric/LSRAV w/o foam	MSRP \$8.99	\$5.49ea
100 +	MSRP \$8.99		\$5.39ea

METRIC 200 DRAGSTERS

A shorter, lighter version of our popular metric dragster. The only difference is the body is 100 mm shorter than our standard metric dragster. Bodies come pre-drilled!

BASSWOOD KITS (8")

ACM3209	Metric 200 w/o foam	MSRP \$8.69	\$5.29 ea
100 +	MSRP \$8.69		\$5.09 ea

BALSA KITS (8")

ACM4209	Metric 200 w/o foam	MSRP \$8.79	\$5.39 ea
100 +	MSRP \$8.79		\$5.19 ea

Dragster 50 PACKS

Material to make 50 CO₂ dragsters or LSRAV cars.

Packs include:

50 12" body blanks, 50 pcs foam (optional),
100 axles, 200 washers, 100 screw eyes
100 rear wheels, 100 front wheels, 50 cartridges,
50 straws, 50 sheets sandpaper, Instruction
booklets (graph sheets enclosed), all packed in bulk.

**Instruction booklets (with graph paper)
cover both Metric and LsraV versions**

ACM1550	Bass Metric Dragster w/foam	MSRP \$389.95	\$226.99
ACM1550A	" W/O CARTRIDGES	MSRP \$359.99	\$206.95
ACM1559	Bass Metric Dragster w/o foam	\$365.95	\$209.95
ACM1559A	" W/O CARTRIDGES	MSRP \$320.95	\$189.95
ACM2550	Balsa Metric Dragster w/foam	MSRP \$459.95	\$267.95
ACM2550A	" W/O CARTRIDGES	MSRP \$429.95	\$247.95
ACM2559	Balsa Metric Dragster w/o foam	MSRP \$436.95	\$255.95
ACM2559A	" W/O CARTRIDGES	MSRP \$399.95	\$235.95

PEEL AND STICK DECAL FOR DRAGSTERS AND ROCKETS

More decals available on pg.18.

BONUS!

Order 12 assorted: Take an extra 25% off 12 assorted decals or Woodland Scenics items!
This includes peel and stick and rub-on decals
This includes all WOO numbers including decals and scenery

Check out our web site to view these and all decals in larger pics
www.acsupplyco.com



WOO320
MSRP \$6.69**\$3.99**



WOO321
MSRP \$6.69**\$3.99**



WOO322
MSRP \$6.69**\$3.99**



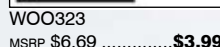
WOO323
MSRP \$6.69**\$3.99**



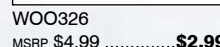
WOO324
MSRP \$4.99**\$2.99**



WOO325
MSRP \$4.99**\$2.99**



WOO326
MSRP \$4.99**\$2.99**



WOO327
MSRP \$4.99**\$2.99**



BASSWOOD

Pre-drilled for CO₂ cartridge

AC501	12" x 1-5/8" x 2-3/4"	MSRP \$3.75	\$2.39
100 +			\$2.29
AC5115	8" x 1-1/2" x 2-3/4"	MSRP \$4.19	\$2.69
100 +			\$2.59

BALSA

Pre-drilled for CO₂ cartridge

AC502	12" x 1-5/8" x 2-3/4"	MSRP \$4.89	\$3.09
100 +			\$2.99
AC5125	8" x 1-1/2" x 2-3/4"	MSRP \$4.89	\$3.09
100 +			\$2.89

FOAM BODY BLANKS

A copy of a 12" body blank to be used to design your prototype.

FBF12	12" foam body blank	MSRP \$.69	\$.39 ea
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FOAM CUTTER

Electric hand held foam cutter. Great for making cars or wings for planes. They have about a 3" spread between the wires!

WOO1435	AC electric hot wire cutter	MSRP \$59.99	\$39.95
WOO1436	Replacement wire for WOO1435	MSRP \$4.99	\$2.98



HOT KNIFE

This hot knife can be used to cut foam with the included #11 blade. It can also be used as a soldering iron. (tip included)

XAC73780	MSRP \$29.99	\$17.98
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LUBRICANTS

GRAPHITE

The very best lubricant for dragsters. Use powdered graphite to reduce drag on axles. A must for serious racers!

WOO358	Tube graphite	MSRP \$5.99	\$3.99
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WHITE TEFLON

Another slick lubricant used when black graphite is too messy!

WOO355	White teflon w/molybdenum	MSRP \$5.99	\$3.99
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Parts bag contents

WHEELS

APL180	Spoke-type front wheels	100 pcs	MSRP \$18.19	\$10.99 pk
APL250	Spoke-type rear wheels	100 pcs	MSRP \$18.19	\$10.99 pk

AXLES

AXL180	1/8" - 2 1/2" long	1/8 axle	100 pcs	MSRP \$4.89	\$3.29 pk
		10 packs			\$2.86 pk
AXL1801	1/8" - 2 1/4" long	1/8 axle	100 pcs	MSRP \$4.89	\$3.29 pk
		10 packs			\$2.86 pk

SCREW EYES

SCR100	1/4" Normal	100 pcs	MSRP \$5.49	\$3.49 pk
		10 packs		\$3.39 pk

BRASS WASHERS

BRW100	#6	100 pcs	MSRP \$4.09	\$2.55pk
		10 packs		\$2.45 pk

PARTS BAG

Includes: 2 ea front and rear spoke wheels, 4 brass washers, 2 screw eyes, 1 ea front and rear axle, 1 CO₂ 8 gram cartridge.

The same bag that comes with our cars.

PBG100	Parts bag	MSRP \$2.59	\$1.79 ea
	100 lots		\$1.65 ea
PBG200	Parts bag without CO2 cartridge	MSRP \$2.15	\$1.49 ea
	100 lots		\$1.39 ea



CO₂ CARTRIDGES

8 gram CO₂ cartridges used in our metric dragster. This cartridge has the industry standard heat safety seal. 100% guaranteed to work with all starting gates!

ACR800	8 gram cartridge	MSRP \$.79	\$.51 ea
ACR8100	100 pack	MSRP \$75.99	\$44.99 pk

STRAWS

STR500	Box of 500	Straws	500 ct	MSRP \$8.29	\$4.95 bx
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DRAGSTER STORAGE BOXES

These are the same sturdy white corrugated boxes used in our new kits. They open from both ends, not on top or bottom, so they hold small parts better. These sturdy boxes are not made out of flimsy chipboard, but strong E flute white cardboard!

DRB100	Dragster box	MSRP \$1.19	\$.66
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DRAGSTER INSTRUCTION BOOKS

The same dragster instruction books used in our CO₂ dragsters

ACM5000	Dragster instruction book	MSRP \$1.19	\$.63
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FOR COMPLETE LISTING OF ALL PINECAR ITEMS
SEE OUR WEB PAGE WWW.ACSUPPLYCO.COM

COLORFUL RUB-ON DECALS FOR CARS AND ROCKETS



Pinecar dry transfers are quick and easy.
Here's all you have to do!

- Position decal sheet on car
- Rub over decal with a pencil
- Remove decal sheet
- Decal stays on car or rocket

These multicolored rub-on dry transfers are the quickest and easiest way to finish decorating your dragster, rocket or any vehicle. All that is required is to rub with a dull pencil or burnishing tool.

p306, p307, p314-p319 (4" x 5") multi-colored MSRP \$8.99.....**\$5.49 ea**
p308 - p313 (4 x 2.5") multi-colored MSRP \$6.39.....**\$3.89 ea**



WOO306
Sponsors & Numbers



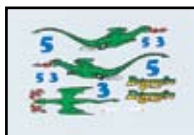
WOO307
Stripes & Flames



WOO316 Drag Racer



WOO319 Formula



WOO308 Dragonfire



WOO310 Magnum



WOO312 Spyder



WOO314 Hot Rod



WOO317 Nascar



WOO309 Cobra



WOO311 Stinger



WOO313 Turbo



WOO315 Off Road



WOO318
Custom Designs

PINECAR BASIC AND DELUXE CAR KITS

Basic kit contains wood block, wheels and axles, and complete instructions. Deluxe car kit contains one of six precut, unfinished car designs, rub - on decals, incremental weights, wheels and axles, cast metal custom parts such as headers, engines, and pipes. step-by-step illustrated instructions for assembly and finishing. All precut kits start with the same specifications to ensure fair competition.

BONUS!

ORDER 12 OR MORE ASSORTED WOO NUMBERS
AND RECEIVE 25% OFF THE REGULAR COST.
THIS INCLUDES ALL WOO NUMBERS INCLUDING DECALS
MAY NOT BE COMBINED WITH ANY OTHER OFFERS



WOO370 Basic Car Kit
MSRP \$6.59**\$3.99**

WOO371 Funny Car
MSRP \$19.99**\$12.99**

WOO4052 Funny Car - 6 pack
MSRP \$59.99**\$34.99**



WOO372 Form Gran Prix
MSRP \$19.99**\$12.99**

WOO4053 Form Gran Prix 6 pack
MSRP \$59.99**\$34.99**



WOO373 Roadster
MSRP \$19.99**\$12.99**

WOO4054 Roadster - 6 pack
MSRP \$59.99**\$34.99**



WOO374 Bandit Coupe
MSRP \$19.99**\$12.99**

WOO4055 Bandit Coupe - 6 pack
MSRP \$59.99**\$34.99**



WOO375 GTS Ferrari
MSRP \$19.99**\$12.99**

WOO4056 GTS Ferrari - 6 pack
MSRP \$59.99**\$34.99**



WOO376 Sling Dragster
MSRP \$19.99**\$12.99**

WOO4057 Sling Dragster 6 - pack
MSRP \$59.99**\$34.99**

BURNISHING TOOL

Used to apply dry transfer decals.

WOO600 Burnishing tool MSRP \$8.99..... **\$5.98**

PAINT FINISHING KITS

Included are sealer/paint, gloss finish, sandpaper (3 grades) paint applicator, sanding block, instructions \$14.79..... **\$8.89**

Color Choices

WOO401	White	WOO407	Orange
WOO402	Phantom Gray	WOO408	Daytona Blue
WOO403	Indy Blue	WOO409	Comp Blue
WOO404	Flame Red	WOO410	Purple
WOO405	GT Gray	WOO411	Baja Yellow
WOO406	Voo doo Black	WOO412	Racing Green