

Two frequency tetrahedron

Tetrahedral dipyramid

Half vector equilibrium

Pentagonal dipyramid

Hourglass

Octet truss

Stella octangula (star tetrahedron) requires 36 rods

Two frequency pyramid requires 38 rods

Truss bridge requires 58 rods

Stellated icosahedron requires 90 rods

Rev 12/2003

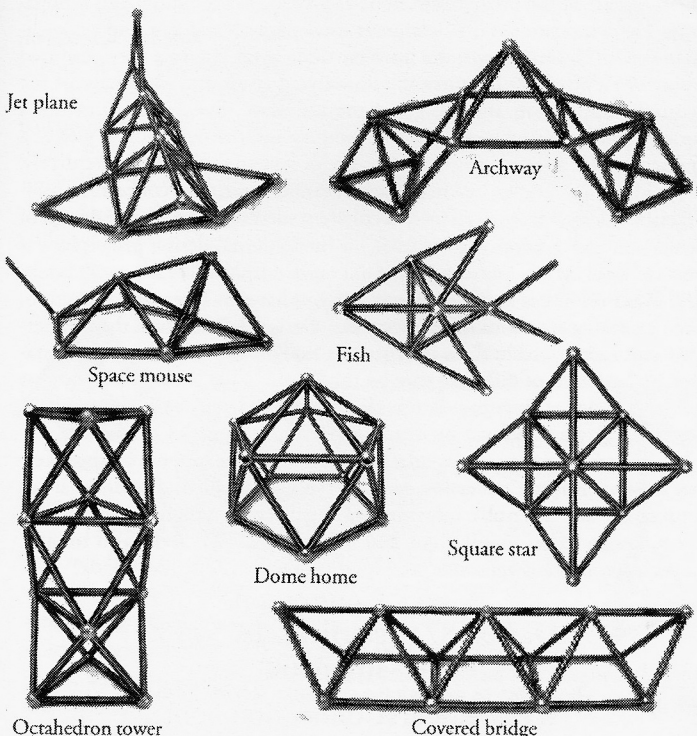
Roger's Connection™

Magnetic Building Set - For ages 6 to adult

Winner - Oppenheim Toy Portfolio™ Gold Seal Award

Winner - Parents' Choice™ Honor

Visit us at www.RogersConnection.com



Jet plane

Archway

Fish

Space mouse

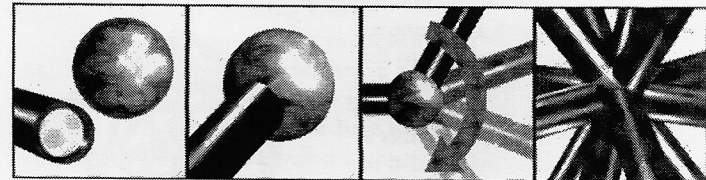
Dome home

Square star

Octahedron tower

Covered bridge

Roger's Connection is an award winning construction toy that is fun for both children and adults. It is also a powerful learning tool. Simply playing with Roger's Connection opens the world of magnetic attraction, architectural design, geometry, sculpture, and molecular structure. It can be useful in manual dexterity training for both old and young. Magnetic bearings can be made, allowing designs with spinning motion to be constructed. Roger's Connection can be enjoyed by children, students, educators, architects, designers, and scientists. Children can enjoy a uniquely constructive group activity that encourages collaboration.



Super-high-powered magnets are embedded in precision molded recycled plastic rods. The magnets are recessed so that the steel connector balls fit precisely, allowing connections of almost any angle to be made. Up to twelve rods can be attached to a single ball. Multiple sets can be combined to build larger designs.

⚠ WARNING:
CHOKING HAZARD-Toy contains small balls and small parts. Not for children under 3 years.

The steel balls and plastic rods must be kept away from children under 3 years. The magnets in the plastic rods can come loose.

CAUTION! POWERFUL MAGNETS!
 Keep magnetic rods (packaged or loose) away from: TV's, computer monitors and disks, audio/video tapes, and credit cards.

Quick Start Hints for Those Who Want to Build First and Read Later

Each rod is fitted with two high-powered magnets, one on each end. Place the end of a rod near a steel ball, and the ball will connect to it. The magnets are recessed so the balls fit perfectly. Try it! Congratulations, you have just made your first Roger's connection! You can connect up to 12 rods to a single ball, at almost any angle. A final hint; build with triangles as much as possible, as your designs will be stronger and more stable than if squares and cubes are used. We encourage you to review this manual, so that you can fully enjoy your Roger's Connection.

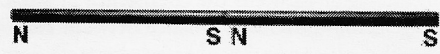
An Important Roger's Connection Secret - North and South

Each Roger's Connection rod has a magnetic North end, and a magnetic South end. Most of the time, it doesn't matter which end you use. Sometimes, when you have many rods connected to the same ball, a high concentration of either a north or south magnetic pole can make it difficult to connect a new rod - it may be "pushed" away. If that happens, turn the rod around and connect the other end which will attract strongly.



Combining Rods for Greater Length

Some shapes can be made with longer rods made from two or more single rods connected directly together, without a ball between them. When you bring two rod-ends together, they will either attract or repel. If the two rods repel, turn one rod around and use the other end.



Building Strong Designs

While Roger's Connection can be used to create endless designs, it is helpful to start with a few basic ones, and then build on that experience. The simplest stable two-dimensional shape that you can build is a triangle.

While the triangle is very simple, it is very important to use when building with Roger's Connection. This is true when designing anything that must be strong, whether it's a bridge, a skyscraper, or a space station. The triangle is perfectly stable, because each

