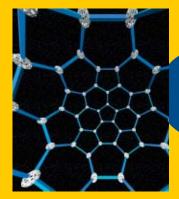
More

Fullerenes are a class of discrete molecules, soccer ball-shaped forms of carbon with extraordinary stability. Although the most famous of fullerenes, the BuckyBall has many cousins. Scientists have discovered hundreds of combinations of these interlocking pentagon/hexagon formations such as: BuckyBabies – spheroid carbon molecules containing fewer than 60 carbon atoms; FuzzyBalls – BuckyBalls

with 60 hydrogen atoms attached; Giant Fullerenes – fullerenes containing hundreds of carbon atoms; Nanotubes (or BuckyTubes) — tubes of carbon created by passing an electric current between graphite rods; DopeyBalls – BuckyBalls which are doped with metal; HairyBalls -BuckyBalls that have split tubes hanging from their bodies, which could potentially be very useful in HIV research.

BuckyBalls are extremely stable. They can react with other atoms & molecules, and can withstand high temperatures & pressures while retaining their structural integrity.

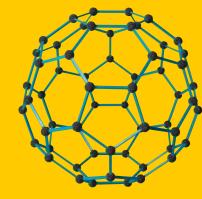


Consider the view from inside a BuckyBall. It's fabulous!

Because they are versatile and easily modifiable, BuckyBalls have enormous

practical applications. Maybe someday these most intriguing of structures will have a major impact on our lives.

Unfold this sheet to find more BB Factoids, and step-by-step, illustrated instructions to build your very own BuckyBall Model.



Buckyballs were discovered in 1985 by R. Curl Jr. and R. Smalley, both of Rice University, Texas, and H. Kroto of the University of Sussex in England.

T

Considered a "playground for chemists and scientists," Buckyballs helped Curl, Smalley and Kroto earn the 1996 Nobel Prize for Chemistry. No wonder the Buckyball won the Molecule of the Year award in 1998!



Build the most anazing powerful model of this century.

> **BUCKYBALLS!** Find out how they've become a stimulus to scientific research and the human imagination!

BuckyBalls promise an exciting future: Superconductors, Medicine, Nanotubes, Solar Cells, Diamond Films – even super lubrication.

NINNER

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Awards

A part of the award-National Toy winning ZOME SYSTEM.

this BuckyBall science model is easy to build, with simple, step-bystep illustrations and fun factoids inside!



How will the teeny mlecu change your future?







The amazing Zome BuckyBail

Although new to science, BuckyBalls are fairly common in nature. Check it out the next time you run across some interstellar dust or geological **Earth formations!**



Explore the mysterious power of BuckyBalls in life and science. It's a brave new world - for SCHOOL SCIENCE PROJECTS or just plain Zome fun!

BuckuBalls are the 3rd form of pure carbon to be discovered, after diamonds and graphite.

BUCKYBALL

The Zome BuckyBall Kit contains **150** Zome Pieces, with 60 Black Zome Balls and 90 short Blue Struts.



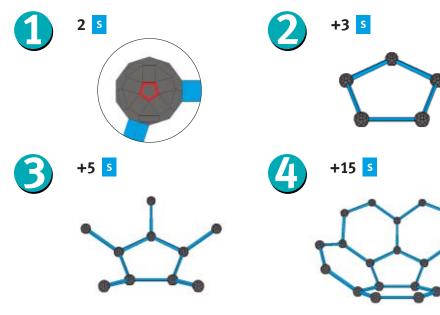
These same instructions may be used with short, medium or long Blue Struts, if you have or obtain 90 Blue Struts all of the same size.)

(This kit uses short Struts,

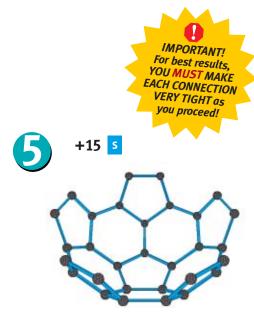


IMPORTANT! For best results, as you build your model, you MUST MAKE EACH **CONNECTION VERY TIGHT!**

+15 s



+15 S



+10 5

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What's a BuckyBall? In real life, a BuckyBall is a densely-packed crystal of carbon atoms - a C60 molecule. Spherical in structure, BuckyBalls (and fullerenes) are named after architect R. Buckminster Fuller for their resemblance to his renowned geodesic domes (like those you see at Disneyworld).



Made up of 20 hexagons and 12 pentagons, just like a soccer ball, a BuckyBall has much more in common with a soccer ball than just looks. It spins, bounces against hard surfaces, and when squeezed and released, springs back to its original shape. Not bad for a molecule, huh!

Hailed as a breakthrough, BuckyBalls also have exciting uses in everything from medical research to optics, metallurgy, electronics and fuel.

Visit www.zomesystem.com to get more information and parts! To speak with us, call 1-888-ZOMEFUN Zometool, Inc., 1526 South Pearl St., Denver, CO 80210 303.733.2880 © 2002 Zometool, Inc. Zome, Zome System and Zometool are Registered Trademarks of Zometool, Inc. – US Patent RE 33785

+10 s

BUCKUBAI Factoids!

BuckyBalls may even turn out to be the most common and oldest molecules in the universe!

Did you know you make BuckyBalls whenever you burn a candle or an oil lamp?!

