

# Isotope Marbles



# Hi Everyone

This chemistry group has been awesome and helped me out a lot, so thanks to everyone. I have been making this up as I go, so I will show you how I have been doing it but I am welcome to suggestions. I have the lab write up in my head but haven't put it to paper yet.

# Supplies

<https://a.co/d/6vutN0j>



Roll over image to zoom in

Water Fuse Beads Refill 5mm 5200 Beads 24 Colors Creative Waterbeads Magic Water Sticky Beads Art Crafts Toys for Kid's Arts & Crafts

Brand: ZOOLMEEAN

★★★★★ 164 ratings | 3 answered questions

Price: \$18.99 (\$0.00 / Count) ✓prime

FREE Returns

May be available at a lower price from other sellers, potentially without free Prime shipping.

Color: 18+6 Colors



Color	18+6 Colors
Material	Pva
Brand	ZOOLMEEAN

I used these kinds of beads. They fuse together with water and are actually very strong. I even wondered about just leaving them bonded with water but then decided I wanted it to look like a nucleus.

# Bonding Agua Beads

I decided on 6 different elements and their isotopes

Hydrogen, Helium, Boron, Lithium, Carbon.

I actually did Nitrogen and Oxygen but they need larger molds.

I decided that whatever color I was using the darker ones would be the protons.

I played around a lot with how to bond them and decided the easiest way was to place them in a  $\frac{1}{2}$  tsp.



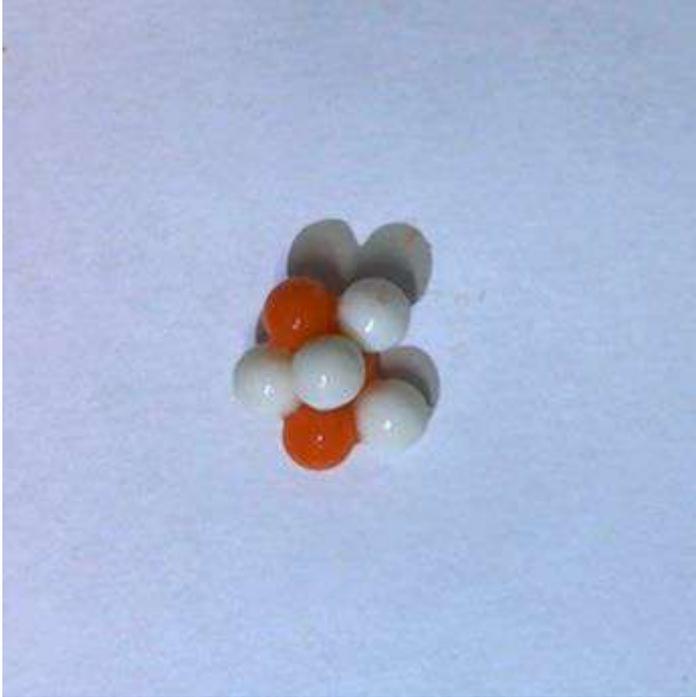
# Bonding Agua Beads



It doesn't take much water so I put a couple of drops(1-2) in the bottom of the tsp and then drop the beads in. I use a toothpick to roll them around and get them wet and to arrange them so that I like the way the look and so that none of the beads are hiding in the middle. On larger ones I would make 2 parts and then let them dry and then connect them with water



# Bonding Agua Beads



I then put them on parchment paper to dry.

Usually overnight.

# Supplies

I used Epoxy Resin and some molds. This was the first time I used Epoxy Resin and so I recommend at least one youtube video if you have never used it before. I had some from another project I did but this is what it was like on amazon

<https://a.co/d/cv4e7RX>

I did a lot and still have a lot of epoxy left. This was the size I started with.



32oz Crystal Clear Epoxy Resin Kit Casting and Coating for River Table Tops, Art Casting Resin, Jewelry Projects, DIY, Tumbler Crafts, Molds, Art Painting, Easy Mix 1:1 Ratio

Visit the JANCHUN Store

★★★★★ 4,013 ratings | 93 answered questions

Amazon's Choice for "casting resin"

List Price: \$32.99 Details

Prime Price: \$28.79 ✓prime

FREE Returns

You Save: \$4.20 (13%)

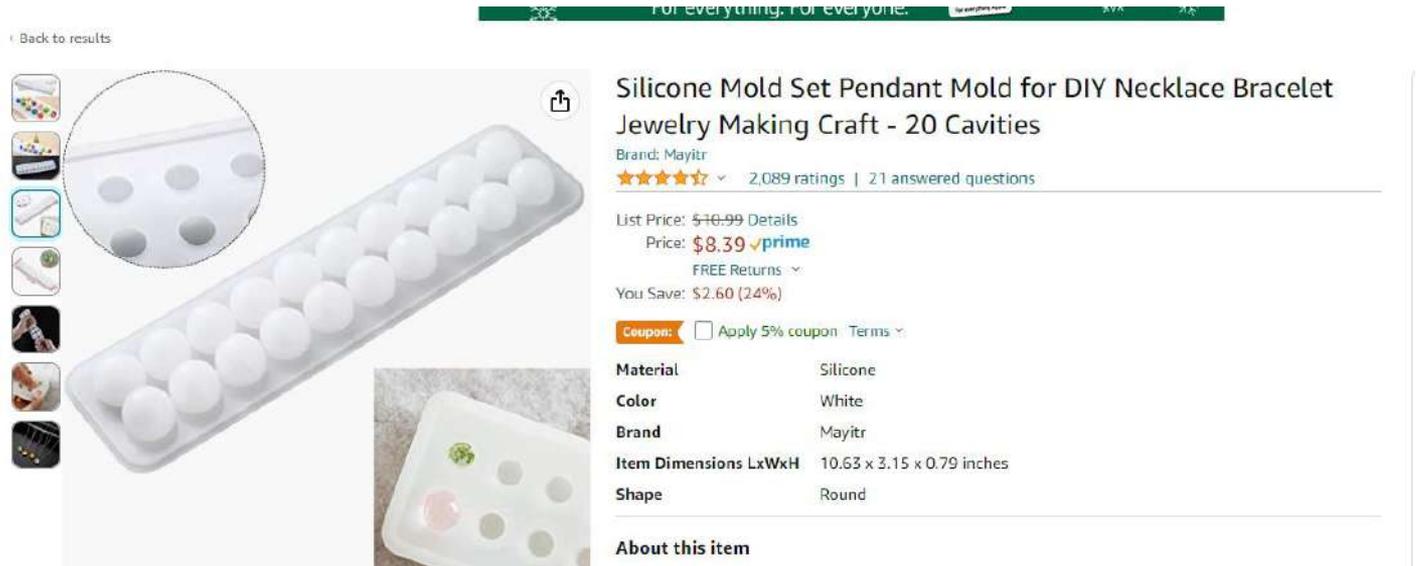
Exclusive Prime price

Brand	JANCHUN
Material	Epoxy Resin
Compatible Material	Acrylic
Color	Clear
Item Package Quantity	1

# Supplies

This molds worked well for the smaller isotopes. I ended up with 3 because when I was making a batch it was easier to do multiple molds because they do need to sit overnight.

<https://a.co/d/i94puc3>



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### Silicone Mold Set Pendant Mold for DIY Necklace Bracelet Jewelry Making Craft - 20 Cavities

Brand: Mayitr

★★★★☆ 2,089 ratings | 21 answered questions

List Price: \$10.99 Details

Price: **\$8.39** ✓prime

FREE Returns

You Save: \$2.60 (24%)

Coupon:  Apply 5% coupon Terms

Material	Silicone
Color	White
Brand	Mayitr
Item Dimensions LxWxH	10.63 x 3.15 x 0.79 inches
Shape	Round

About this item

# Making them

When you mix the resin stir VERY VERY SLOWLY. Air bubbles are the biggest problem. A hairdryer is recommended for some heat. Again watch a youtube video.

I did find that they would sink to the bottom if they were small isotopes and so I put just a little in the bottom of the mold and let it dry and then hot glued the isotopes to the little piece of dried epoxy and then placed that in the molds and it helped keep them more in the center.

Then just pour slowly. I tried to put more epoxy over the top because it tended to sink in as it dried and if I had overflow on the top it helped. It extra came off pretty easy with small scissors or I even ended up using fingernail clippers.

I think I will like that there is a flat bottom so that they won't roll quite as easily.

# Write up

It is still in my head so I don't have it ready. If there are questions please ask because I might have skipped over something.

Good Luck everyone