

How To: Bioceramic Jewelry

Base Recipe:

5g Gelatin

24g Eggshell

18 ml Water

Directions:

1. Weigh out your gelatin and eggshell
 - a. Put measuring bowl on scale, click "M" button until you see "g" (grams) on the screen, and click "T" (tare) so it says 0.0, then add your ingredient to measuring bowl
2. Measure out your water in the beaker
 - a. Wait until it is at 120-140 degrees fahrenheit
3. Pour gelatin + water into the bowl/pot and gently stir, trying to not create bubbles, until consistency is smooth with no gelatin chunks
4. Add in eggshell and continue mixing until smooth
 - a. Also food coloring if using
5. Gently pour onto your mold or sheet
 - a. You may want to use your spoon to scrape it out
6. Label your sample with the exact recipe and your name

Modifications:

- Try different molds
- Try bigger pieces of crushed eggshell vs. powdered eggshell
- Change the ratios of the recipe to create different consistencies and textures
- Add different colors, combine different colors together
- Mix in a tiny bit of dish soap for a foamy consistency

Lesson Plan: Bioceramic Jewelry

Materials:

Gelatin	Beakers (for water volume)
Eggshell powder	Scales
Eggshells	Thermometer
2 Hot water kettles	Molds
Mixing bowls	
Samples	Mortar and pestle
Blender	Paper towels
Grain grinder	

Presentation (15 min)

Demo (15 min)

Eggshell prep (15 min)

- Separate into Groups → Eggshell grinding with mortar and pestle (10min)
- Come back into whole group → Put some crushed eggshells into grain grinder (5min)
 - Start hot water kettles

Mixing and casting (60 min)

- Go back into groups
- Mix ingredients
- Cast into molds
- Label with name and info

Clean up (15 min)