



BATH BOMBS!



MAKE YOUR OWN BATH BOMBS!

How can you make a bath bomb using science & engineering?

**For 4
bath
bombs**



Prep:
30 minutes



Setting:
At least 4 hours setting
in a warm, dry place



INGREDIENTS:

- 100g bicarbonate of soda
- 50g citric acid
- 25g cornflour
- 2 tbsp oil (sunflower, olive oil, or coconut oil)
- ¼ tsp essential oil
- a few drops of liquid food colouring
- 1 drop of water
(be careful anymore will take longer to set)
- Pinch of salt
- **Optional:** orange peel, lemon peel, lavender, petals, glitter, peppermint, to personalise



**HOW IS THIS
RELATED TO
ENGINEERING?**



YOU WILL ALSO NEED:

- A mixing bowl
- A whisk
- Moulds





Credit: This is Engineering



I became an Aroma Chemicals Creative Buyer, sourcing and creating the natural and synthetic chemicals for fragrances of Lush's soaps, bath bombs, shampoo bars... and everything else! I got to travel abroad, across Europe, Brazil and the USA to find the best materials and ingredients."



Olivia Sweeny
Chemical Engineer



Olivia Sweeny has been voted
**one of the top 100 most
influential women
in engineering**



METHOD:

1. Add together the bicarbonate of soda, citric acid, cornflour and salt in a bowl and mix.
2. Pour the base oil (sunflower, olive, coconut), essential oil and your food colouring into a separate mixing bowl. You may want to wear gloves or use a pestle and mortar. It is important to mix everything well.
3. Gently start to add the oil mixture into the dry ingredient's mixture a little at a time. Keep mixing as you add. Once all the oil is added, add a few very small drops of water from a measuring cylinder, cup or pipette.
4. The combined bath bomb mixture should slightly clump together like a sandy paste. Make sure it's not too wet as it will take longer to dry.
5. **Optional:** If you are adding extra decoration, you can put them into the bottom of your mould. Pack your mixture, like a sandcastle, tightly so it feels as though the mould will hold.
6. Leave your bath bomb in the mould and allow it to dry for 4 hours. The drier and warmer the space, the better.
7. Once dried, you have a fully working fizzy bath bomb!

