

**Materials**

* [**Baby oil**](http://amzn.to/2vmN38C)
* **A** [**pan**](http://amzn.to/2vjRzGy)**or**[**clear container**](http://amzn.to/2fskTFo)
* [**Pipettes**](http://amzn.to/2kGZ4Pw)
* [**Neon Paint**](http://amzn.to/2uGK35j)
* **Small bowls**
* **. Water**

**Method**

* Begin by filling a dish or [container](http://amzn.to/2fskTFo) with [baby oil](http://amzn.to/2vmN38C).  Set this aside.

**Making the glowing water colours**

* Add a teaspoon of [glowing paint](http://amzn.to/2uGK35j) to a bowl, using one bowl for each colour of glowing water that you wish to make.
* Fill the bowls with **very warm** water and mix until [the paints](http://amzn.to/2uGK35j) dissolve into the water.
* You will now have a variety of glowing waters to use for this experiment!



Now,***the experiment*** can begin!

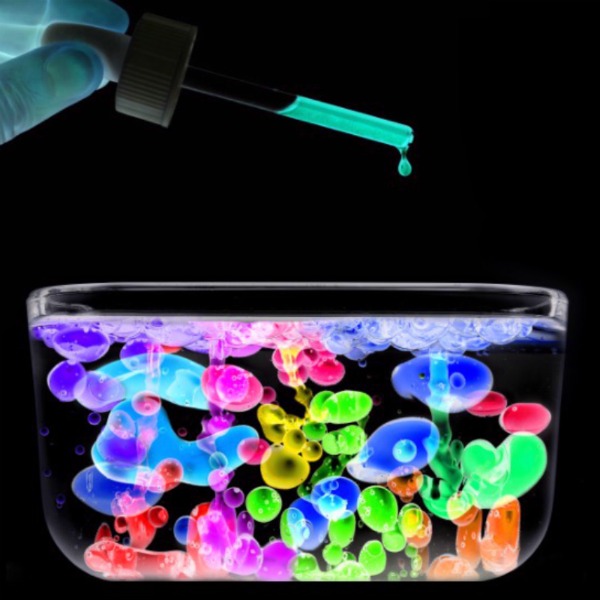
Have children use [a pipette](http://amzn.to/2kGZ4Pw) or small straw to drop the colourful waters into their container of [oil](http://amzn.to/2vmN38C).



As kids drop the water into [the oil](http://amzn.to/2vmN38C) the water will bead up and create beautiful effects!



No matter how much coloured water is added the oil ***the oil and water will not mix!***  ***Isn't that cool science?***



**The Science Behind the Fun**  
For older kids you can talk in detail about ***the densities of the two liquids*** and [why they do not mix](http://humantouchofchemistry.com/why-oil-and-water-do-not-mix.htm).

* [Why Oil & Water Don't Mix](http://www.scienceprojectideas.co.uk/why-oil-water-dont-mix.html)
* [Oil & Water- Sick Science](https://www.stevespanglerscience.com/lab/experiments/oil-and-water/)
* [Oil & Water Science](http://mocomi.com/why-oil-and-water-dont-mix/)