

### 1. solutions

Do not use metal cups or spoons!

Make solution 1:  
- 5 g potassium ferricyanide  
- 50 ml water

Make solution 2:  
- 15 g ferric ammonium citrate  
- 50 ml water

### 2. mix

Mix both solutions. Gently stirr.

### 3. prepare

Smear your paper. It is easy with a sponge.

Cover your workbench with plastic. Leave to dry, use a hairdryer when in a hurry.

### 4. choose

Choose the things you want to blueprint. Look for nice shapes!

Make drawings on transparant plastic sheets.

Plants are nice!

Do not oversee everyday objects. (Bubblewrap!)

### 5. expose

Place your object on the prepared paper en expose it to direct sunlight.

**30 seconds to 1 minute. in bright sunlight, longer when it is cloudy. (5 mins. or more)**

### 6. rinse

Rinse the exposed paper under a running tap. The exposed part will turn a deep blue! Rinse until all the yellow is gone.

### 7. dry

Leave to dry. Done! Don't you love it!?

# the Big Fat Book by Max & Ro

The Big Fat Book is a project by Astrid Poot.

And that's chapter 6!  
Thank you **Marten Hazelaar** ([martenhazelaar.nl/](http://martenhazelaar.nl/)) and **Per-Ivar Kloen** ([twitter.com/\\_pi](https://twitter.com/_pi)), supermakers that have been bluerpinting with their students since forever.

We plan to make the full fifty chapters on all the tools on our poster, one by one. Each with some history, nice facts and lots of DIY ideas for home and schools.

We'll do it all together with the international maker-community. (You!) We'll make all chapters available for free through our website. (CC: BY-NC-ND 4.0)

Do you like our project and want to keep track of it? Or do you want to join in? Please follow our progress and get in touch: [www.lekkersamenklooien.nl](http://www.lekkersamenklooien.nl). You'll also find a free download of the 50 tools poster there. Or find me on Twitter: @astridpoot.

<3 love, Astrid

Soon:  matches



When exposed to UV light (sun!) a chemical reaction will start. The iron (from the potassium ferricyanide) will change into a different type: from Fe3+ to Fe2+.)

And you discovered bluerpinting. Can you explain how it works? We want to be like that too!

I did many different things. That was very common for scientists in my time. I studied math, astronomy, photography, color blindness, plants and wrote about science.

Of course. First you make a solution using two chemicals: potassium ferricyanide and ferric ammonium citrate. The solution looks like old tea with spinach, gross! Nothing happens as long as you keep the sunlight away. You can smear the solution on (uncoated) paper or cloth (like a t-shirt).

And you discovered bluerpinting. Can you explain how it works? We want to be like that too!

When exposed to UV light (sun!) a chemical reaction will start. The iron (from the potassium ferricyanide) will change into a different type: from Fe3+ to Fe2+.)

By rinsing it with water you complete the reaction: the deep **Russian blue** appears.

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