

## Materials list for Crankie Making course:

**For session 1**, you will need:

- Notebook
- Some loose sheets of plain white paper (A4 printer paper will do)
- Pen, drawing pencil, and some colour pencils or felt tip pens
- Rubber/eraser
- Ruler
- Scissors
- Gluestick
- Masking tape

In session 1, I will talk you through the list of materials that you will need from session 2 onwards and answer any questions. **But please do take a look at the list below as you may want to source what you can in advance of the course.** If you don't have all the tools, you might be able to line up opportunities to borrow them.

**From session 2 onwards** we will be using the tools and materials listed below:

### Essential tools/resources:

- All the items from session 1
- A solid surface to work on. A purpose-built work bench is ideal but if you don't have one, then a strong, sturdy table that you can clamp your vice and your work to whilst you are sawing and drilling.
- A vice for clamping wood - example: [www.diy.com/departments/50mm-portable-vice](http://www.diy.com/departments/50mm-portable-vice)
- Minimum 2 x bar clamps (for clamping wood to a flat work surface). If you've got 3, even better. Example: [www.diy.com/departments/bar-clamp-250mm](http://www.diy.com/departments/bar-clamp-250mm)
- A hand-held electric drill. Example: [www.diy.com/departments/bosch-550w-240v](http://www.diy.com/departments/bosch-550w-240v)
- A general purpose wood saw. Example: [www.diy.com/departments/magnusson-ua0-18-general-purpose-wood-saw](http://www.diy.com/departments/magnusson-ua0-18-general-purpose-wood-saw)
- 26mm flat drill bit for wood - example: [www.diy.com/departments/universal-wood-drill-bit](http://www.diy.com/departments/universal-wood-drill-bit)
- 9mm drill bit for wood - example: [www.diy.com/search?term=9mm+drill+bit](http://www.diy.com/search?term=9mm+drill+bit)

- 2 or 2.5 mm drill bit (for the screws / pilot holes). Example: [www.diy.com/departments/universal-hss-drill-bit-dia-2mm](http://www.diy.com/departments/universal-hss-drill-bit-dia-2mm)
- A basic set square - example: [www.diy.com/departments/magnusson-16-framing-square](http://www.diy.com/departments/magnusson-16-framing-square)
- A regular manual screwdriver (cross head)
- A screw-driver head for your electric drill **OR** a separate electric screwdriver
- A universal counter-sink head for your electric drill (used for sinking screws so they become flush with the wood). Example: <https://www.diy.com/departments/universal-carbon-steel-countersink>
- Some sandpaper - ideally a medium and a fine grade
- A sharp pencil
- A ruler and a tape measure
- A sharp craft knife or Stanley knife
- White glue - can be wood glue or a strong craft PVA like the Sobo glue mentioned below will be fine

### Optional but very useful tools:

- A hand-held electric jigsaw. Example: <https://www.diy.com/departments/bosch-500w-240v-corded-jigsaw>
- A wooden mitre-box: [www.diy.com/departments/wood-mitre-box](http://www.diy.com/departments/wood-mitre-box)
- A **bench hook**: [www.cromwell.co.uk/shop/hand-tools/mitre-blocks-and-bench-hooks](http://www.cromwell.co.uk/shop/hand-tools/mitre-blocks-and-bench-hooks)
- A junior hacksaw. Example: [www.diy.com/departments/irwin-junior-hacksaw](http://www.diy.com/departments/irwin-junior-hacksaw)

### Essential Materials:

**Note about wood for the crankie box - PLEASE READ THIS CAREFULLY!**

Below I have given links to some standard **pine board shelving** which is available from B&Q. The product name is '**Form Kosto Matt Shelf**', however I have checked and it is a solid pine board, not a laminated chipboard, which is what you want.

If you can, do support your local wood shop/yard and buy from them instead. I'm just using the example of the B&Q shelving in order to provide an accessible visual reference, to explain what's needed.

The pine shelving in the materials list below **is already the correct depth for the crankie that I've designed for this course.** So if you buy this wood, you will only need to make short cuts across the width of the board, which keeps things relatively simple. *If you feel less confident with woodwork, I would recommend buying the wood in this form.*

**NB.** Please bear in mind that if you already have wood at home that you want to use, you may need to do more cutting to get it down to the correct size, - *so if you choose this option you will need to be confident with using either a handsaw or a hand-held electric jigsaw.*

Also, I strongly recommend using real wood for this project, not chipboard or MDF.

### Wood for the crankie box:

- 2 x pieces of **Form Kosto Matt Shelf (L)1180mm X (D)230mm @£10** each available from B&Q:

<https://www.diy.com/departments/form-kosto-matt-shelf-l-1180mm-d-230mm/>

### Wood for the crankie rods:

- 1 piece of wooden dowelling 9mm diameter x 900mm length @£1.20
- 1 wooden broom handle from Homebase: (Product name is 'Dual Fill Wooden Broom with Handle', diameter of handle is 25mm) @8.95 [www.homebase.co.uk/279mm-dual-fill-wooden-broom-with-handle](http://www.homebase.co.uk/279mm-dual-fill-wooden-broom-with-handle)  
(alternatively you can get some wooden dowelling on its own that is 25mm diameter and at least 1metre long, but this will most likely cost you double the price).

### Other wood:

- Some spare scraps of wood for making crankie handles and the stoppers to hold cranks in place, and for any practice cutting/testing drill bit sizes where necessary.
- 4 x wooden pegs 30mm long and 6mm diameter [www.diy.com/departments/b-q-wood-dowel-l-30mm-dia-6mm](http://www.diy.com/departments/b-q-wood-dowel-l-30mm-dia-6mm)

**OR** make your own pegs using short pieces of 6mm diameter dowel

## Fixtures and fittings:

- 16 x flat-head, cross head wood screws 3.5mm (diameter) x 40mm (length).  
Example:  
[www.diy.com/departments/diall-stainless-steel-screw-dia-3-5mm-l-40mm-pack-of-](http://www.diy.com/departments/diall-stainless-steel-screw-dia-3-5mm-l-40mm-pack-of-)

## Scroll making materials:

- **A roll of strong, thin paper.** NB. as with all the materials, **we will talk through some options in the first session. You will have time after that to source the paper you want.** *But bear in mind that not all papers are suitable for a crankie* - too thick and it won't turn, too thin and will rip easily!
- As an example - I have used this brand of **strong white (or ivory) Kraft paper**, and found it to be successful: [www.amazon.co.uk/gp/product/B009VSM0SM/](http://www.amazon.co.uk/gp/product/B009VSM0SM/)
- Scissors
- For drawing/ painting your scroll, options include: inks, watercolour paints, colour pencils, tissue paper or other thin paper for collage/paper-cut silhouette making, pens, crayons.
- If you intend to collage on to your scroll - a strong, flexible glue (We can talk about options for this in the class). An example of a flexible glue is **Sobo glue**: <https://www.amazon.co.uk/gp/product/>