

# Kit List

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This **Kit List** has been written to accompany my **Carve a Puppet Hare** tutorial series at [www.sarahvigarsart.com/tutorials](http://www.sarahvigarsart.com/tutorials). To take part, you will need to purchase one of my **Carving Kits**, which are available in my online shop ([www.sarahvigarsart.com/shop](http://www.sarahvigarsart.com/shop)). **Video 1** of the series (available now on the tutorials page) shows you exactly what's inside a carving kit, and takes you through the **tools, paints and equipment** that you will need to complete the project, which are also itemised on this kit list. I recommend viewing **Video 1** alongside reading this document.

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Carving Tools			
Item	Description	Where to find (UK)	Where to find (non-UK)
Flexcut whittling knife	<p>Throughout the tutorials, I am using Flexcut's <b>KN13 Detail Knife</b>. As the name suggests, this knife is intended for carving detail, but I also find it perfectly workable for roughing out small projects such as this one.</p> <p>If you also want a knife for roughing out larger projects, check out Flexcut's <b>KN14 Roughing Knife</b>, or their <b>KN12 Cutting Knife</b></p> <p>Of course, you may already have a whittling knife (or two!) of your own. For roughing out this project, it helps if the blade is <u>at least 1 inch long</u>. For carving detail, it helps if the tip of the blade is a fine point, rather than a chunky one. You might have one knife for each purpose.</p>	<p>There are many UK stockists of <b>Flexcut</b> tools and you can usually order online. Here are a few, with direct links to the <b>KN13 detail knife</b>:</p> <p><b>Axminster Tools:</b>  <a href="https://www.axminstertools.com/flexcut-kn13-detail-knife-600076">https://www.axminstertools.com/flexcut-kn13-detail-knife-600076</a></p> <p><b>G&amp;S Specialist Timber:</b>  <a href="https://www.toolsandtimber.co.uk/flexcut-detail-knife-kn13">https://www.toolsandtimber.co.uk/flexcut-detail-knife-kn13</a></p> <p><b>Swansea Timber and Plywood:</b>  <a href="https://www.swanseatimber.co.uk/hand-tools/wood-carving/FLEXCUT-Detail-Knife/prod_3974497.html">https://www.swanseatimber.co.uk/hand-tools/wood-carving/FLEXCUT-Detail-Knife/prod_3974497.html</a></p>	<p>If you live in the USA, you can order directly from <b>Flexcut</b> tools. Their full range of carving knives can be found here: <a href="https://www.flexcut.com/home/category/carving-knives">https://www.flexcut.com/home/category/carving-knives</a></p> <p>If you live outside the USA, <b>Flexcut</b> have many stockists all over the world. For a full list visit: <a href="https://www.flexcut.com/locate-a-dealer/">https://www.flexcut.com/locate-a-dealer/</a></p>

Sharpening Equipment			
Item	Description	Where to find (UK)	Where to find (non-UK)
Knife strop and compound	<p>OPTION 1 (recommended)</p> <p>To keep your knife blade sharp and polished, you need a <b>leather strop</b> with <b>polishing compound</b> or <b>strop paste</b>. There are two brands that I would recommend, both come with a compound bar. I explain stropping in <b>Video 2</b> of the tutorials.</p>	<p><b>Connell Double-Sided Leather Strop</b>  <a href="https://www.axminstertools.com/connell-double-sided-leather-strop-502500">https://www.axminstertools.com/connell-double-sided-leather-strop-502500</a></p> <p><b>Flexcut Knife Strop</b>  <a href="https://www.axminstertools.com/flexcut-knife-strop-504666">https://www.axminstertools.com/flexcut-knife-strop-504666</a></p>	<p><b>PW14 Flexcut Knife Strop</b>  <a href="https://www.flexcut.com/home/product/pw14-flexcut-knife-strop">https://www.flexcut.com/home/product/pw14-flexcut-knife-strop</a></p> <p>For worldwide stockists  <a href="https://www.flexcut.com/locate-a-dealer/">https://www.flexcut.com/locate-a-dealer/</a></p>
	<p>OPTION 2 (budget)</p> <p>If you need to save a bit of money, you can source some <b>leather</b> to use as a strop instead (a suede texture is best, rather than 'shiny' leather). Glue the leather to a rigid surface, such as plywood or thick card (<b>UHU glue</b> works well with leather - see glues section). You will still need to dress the leather with <b>compound</b> or <b>strop paste</b> (see opposite)</p>	<p><b>Axminster Blue Polishing Compound</b>  <a href="https://www.axminstertools.com/axminster-blue-polishing-compound-105924?glCountry=GB&amp;gclid=EAIaI@obChMIImbgGt4dHr6wIVA7TtCh07wggSEAcQYAyABEgLvD_BwE">https://www.axminstertools.com/axminster-blue-polishing-compound-105924?glCountry=GB&amp;gclid=EAIaI@obChMIImbgGt4dHr6wIVA7TtCh07wggSEAcQYAyABEgLvD_BwE</a></p>	<p><b>PW11 Flexcut Gold Polishing Compound</b>  <a href="https://www.flexcut.com/home/product/pw11-flexcut-gold-polishing-compound">https://www.flexcut.com/home/product/pw11-flexcut-gold-polishing-compound</a></p>

Additional Carving Equipment			
Item	Description	Where to find (UK)	Where to find (non-UK)
Leather finger guard	<p>In these tutorials I wear a leather 'finger guard' to protect the index finger on my carving hand. You can make one yourself by sewing a small piece of leather into a tube. I hand-stitched mine using a bradawl, a needle and button thread. Ideally, use flexible leather so that your hand doesn't feel restricted by it.</p>	N/A	N/A

If you want to, you can paint the hare puppet however you like! In **Video 9** I will demonstrate my own staining and painting techniques, and below is a list of the **dyes, paints and oils** I use, with links to suppliers.

**ALLERGEN ADVICE - relating to the dyes, paints, oils and glues used in these tutorials**

- **Milk paint** is made from casein (a protein found in milk) and lime. It is non-toxic, VOC-free & biodegradable. However, as it is a milk product, it may be unsuitable for severe dairy allergy sufferers. Use chalk paint or acrylic paint as an alternative.
- **Rustins Danish oil** is not VOC free, though I only use it in very small quantities. It conforms to The Articles in Contact with Food Regulations and to the Toys (Safety) Regulations (1995, BS:EN71 Part 3). However, please note that Danish Oil contains tung oil which is extracted from nuts, and may therefore be unsuitable for severe nut allergy sufferers. Use at your own discretion, or contact Rustins Ltd for more information about their products.
- **Araldite glue** and **UHU glue** are toxic if consumed and can cause skin irritations. Keep away from children. If you have sensitive skin you can wear gloves when using these glues. Both glues are also toxic if inhaled so use them in a well ventilated area, or wear a mask.

Dyes, Paints and Oils				
Item	What's it for?	Description	Where to find (UK)	Where to find (non-UK)
Walnut crystals	For staining the wooden parts of the puppet hare	<p><b>Walnut crystals</b> dissolve in water. They are eco-friendly, solvent free and non-toxic.</p> <p>You can create different shades, depending on the ratio of crystals to water. They can be mixed with other water-based wood dyes to create different colours.</p>	<p>100g bag of Bolgers Walnut Crystals:  <a href="https://bolgers.co.uk/collections/wood-dyes/products/bolgers-walnut-crystals?variant=6886545489978">https://bolgers.co.uk/collections/wood-dyes/products/bolgers-walnut-crystals?variant=6886545489978</a></p>	<p><b>Liberon Van Dyck Crystals:</b> International shipping on Amazon:</p> <p><a href="https://www.amazon.com/Liberon-Van-Dyck-Crystals-500g/dp/B001GU6GVW/ref=sr_1_1?dchild=1&amp;keywords=van+dyke+crystals&amp;qid=1600707241&amp;sr=8-1">https://www.amazon.com/Liberon-Van-Dyck-Crystals-500g/dp/B001GU6GVW/ref=sr_1_1?dchild=1&amp;keywords=van+dyke+crystals&amp;qid=1600707241&amp;sr=8-1</a></p>
	<p>In <b>Video 9</b>, I use <b>Walnut crystals, mixed with an orange water-based wood dye</b> to make a chestnut brown. This is the main colour I use to stain the hare.</p> <p>I use this combination as it is what I already have at home.</p> <p>You could also use walnut crystals, <u>OR you could use another shade of brown wood dye</u> - see the next page for more on water-based wood dyes</p>		<p><b>Liberon Van Dyck Crystals, 250g:</b>  <a href="https://www.axminstertools.com/liberon-van-dyck-crystals-250g-410246">https://www.axminstertools.com/liberon-van-dyck-crystals-250g-410246</a></p>	

# Dyes, Paints and Oils

Item	What's it for?	Description	Where to find (UK)	Where to find (non-UK)
Water-based wood dyes	<p>For staining the wooden parts of the puppet hare</p> <p>In <b>Video 9</b>, I will use walnut crystals, mixed with an <b>orange water-based wood dye</b> to make a chestnut brown. This is the main colour I use to stain the hare. I use this combination as it is what I already have at home.</p> <p>You could also use walnut crystals, OR you could use any shade of brown wood dye.</p>	<p>OPTION 1</p> <p><b>Bolgers</b> are the brand of wood dyes I use (based in the UK). You can buy different colours as <b>individual 100ml bottles</b>. There are lots of vibrant colours to chose from. For the hare puppet, you can take your pick of any of their range of browns, from 'Red Oak' to 'Walnut'</p>	<p><b>Bolgers Water-based Wood, individual bottles of 100ml:</b></p> <p><a href="https://bolgers.co.uk/collections/wood-dyes/products/water-based-wood-dye-100ml">https://bolgers.co.uk/collections/wood-dyes/products/water-based-wood-dye-100ml</a></p>	<p>Unfortunately Bolgers do not ship worldwide, so you may need to research an alternative brand of water-based wood dyes. Here is another brand you could try:</p> <p><b>Mixol Universal Pigment, set of 10 colours:</b></p>
	<p>I prefer using <b>wood dyes</b> rather than paints because the grain of the wood shows through the dye. Paints will 'lacquer' over the surface of the wood, thereby disguising its 'woodiness'!</p> <p>I use <b>water-based wood dyes</b> as they are <b>eco-friendly, solvent free and non-toxic</b>, making them very enjoyable to use!</p> <p>Colours can be mixed.</p>	<p>OPTION 2</p> <p>I have researched an alternative brand of water-based dyes, in case <b>Bolgers</b> are unavailable. <b>Liberon</b> produce a set of concentrated dyes in 15ml bottles. These dyes will need diluting in water (Bolgers dyes come pre-diluted)</p>	<p><b>Liberon Concentrated Water-Based Wood Dyes, set of 8 colours:</b></p> <p><a href="https://www.ebay.co.uk/itm/Liberon-Water-Based-Concentrated-Wood-Dye-15ml-All-Eight-Colours-Available/392216074958?epid=1905560137&amp;hash=item5b51e65ace:g:NR8AAOSw8a9cPemR">https://www.ebay.co.uk/itm/Liberon-Water-Based-Concentrated-Wood-Dye-15ml-All-Eight-Colours-Available/392216074958?epid=1905560137&amp;hash=item5b51e65ace:g:NR8AAOSw8a9cPemR</a></p>	<p>These dyes will need diluting in water. This is an American brand:</p> <p><a href="https://www.woodcraft.com/products/mixol-10-piece-woodworkers-tones-set?via=5d112bea776f6fe030006e2%2C5d112e45776f6f2c76000622%2C5d1132a1776f6f1ffa000fa9">https://www.woodcraft.com/products/mixol-10-piece-woodworkers-tones-set?via=5d112bea776f6fe030006e2%2C5d112e45776f6f2c76000622%2C5d1132a1776f6f1ffa000fa9</a></p>

# Dyes, Paints and Oils

Item	What's it for?	Description	Where to find (UK)	Where to find (non-UK)
Milk paint (or chalk paint)	<p>For painting solid areas of white on the wooden parts of the puppet hare.</p> <p>Where possible, I use <b>milk paint</b> as a natural alternative to using acrylic paint, or other plastic-based paints. It has a matte texture, which compliments the finish of the wood dyes. It's also more porous than other paints, so the Danish oil (which is added later) can soak into it a little.</p>	<p>Milk paint comes in powder form for mixing with water. If you'd prefer a vegan option, there is also <b>chalk paint</b>, which often comes pre-mixed.</p> <p>There are various brands available (see examples opposite)</p>	<p><b>Old Fashioned Milk Paint</b>  <a href="https://oldfashionedmilkpaint.co.uk/collections/old-fashioned-milkpaint/products/old-fashioned-milk-paint-snow-white">https://oldfashionedmilkpaint.co.uk/collections/old-fashioned-milkpaint/products/old-fashioned-milk-paint-snow-white</a></p> <p><b>Nordic Chic Chalk Paint:</b>  <a href="https://www.ebay.co.uk/itm/224048646146">https://www.ebay.co.uk/itm/224048646146</a></p>	<p><b>The Real Milk Paint Co. (USA)</b>  <a href="https://www.realmilkpaint.com/shop/colors/0(-soft-white/">https://www.realmilkpaint.com/shop/colors/0(-soft-white/</a></p> <p><b>Nordic Chic Chalk Paint (EU):</b>  <a href="https://nordicchic.eu/collections/chalkpaint">https://nordicchic.eu/collections/chalkpaint</a></p>
Danish oil	<p>I apply Danish Oil to all wooden parts of the puppet (after staining) to seal the water-based dyes into the wood, making the finished surface water-resistant.</p> <p>Danish oil also adds a polish/lustre to the surface of the wood</p>	<p>I use <b>Rustins Danish Oil</b>, which I buy from my local hardware shop. Most hardware shops (chains or independents) will stock a brand of Danish oil. You will only need a small bottle eg. 250ml</p>	<p>Available at most hardware shops.</p> <p><a href="https://www.ebay.co.uk/sch/i.html?from=R40&amp;trksid=p2380057.m570.l1311&amp;_nkw=rustins+danish+oil&amp;_sacat=0">https://www.ebay.co.uk/sch/i.html?from=R40&amp;trksid=p2380057.m570.l1311&amp;_nkw=rustins+danish+oil&amp;_sacat=0</a></p>	<p>For world-wide stockists of Rustins products:  <a href="https://www.rustins.ltd/rustins/stockists">https://www.rustins.ltd/rustins/stockists</a></p> <p>Or look for an alternative brand of Danish Oil in your local hardware shop</p>
Acrylic paint	<p>In <b>Video 9</b>, I will use acrylics to paint the hare's ears and tail and the puppet control. I use <b>black, white and burnt umber</b>.</p>	<p>Acrylics are fast drying and flexible.</p> <p>I recommend <b>Daler Rowney acrylic paints</b>.</p>	<p>Available from most art suppliers.</p> <p><a href="https://www.jacksonsart.com/daler-rowney-graduate-acrylic">https://www.jacksonsart.com/daler-rowney-graduate-acrylic</a></p>	<p>Acrylic paints are available from most art suppliers world wide. Visit your nearest art shop or search online for your nearest supplier or brand!</p>

Glues				
Item	What's it for?	Description	Where to find (UK)	Where to find (non-UK)
Araldite 2 part epoxy	<ul style="list-style-type: none"> <li>For gluing the puppet's eyes in place</li> <li>For attaching the handle to the control rod</li> <li>For attaching the control rod to the puppet</li> </ul>	<p>I recommend using the <b>RAPID Araldite</b>, which sets in 5 minutes. There are alternative brands: search for '<b>2-part epoxy glue</b>' if you can't find Araldite.</p>	<p>Available in most hardware shops. Here is the product webpage, complete with stockists: <a href="https://www.go-araldite.com/products/epoxy-adhesives/araldite-rapid-2-x-15ml-tube">https://www.go-araldite.com/products/epoxy-adhesives/araldite-rapid-2-x-15ml-tube</a></p>	<p>Visit your local hardware shop or search for <b>2-part epoxy glue</b> online to find your nearest supplier or brand</p>
UHU all purpose adhesive	<ul style="list-style-type: none"> <li>For gluing the leather (or faux leather) knee joints</li> <li>For making the hare's ears and tail</li> </ul>	<p><b>UHU glue</b> is clear and fast drying. It is temporarily adjustable. It also stays flexible after setting, making it suitable for gluing leather.</p> <p>(This is also the glue to use with leather if making your own strop for sharpening)</p>	<p>Available in most hardware shops and craft shops</p> <p><a href="https://www.uhu.com/en/product-page/the-all-purpose-adhesive/5114">https://www.uhu.com/en/product-page/the-all-purpose-adhesive/5114</a></p>	<p><b>Bostik glue</b> is another multi-purpose glue, available in Europe: <a href="#">link here</a></p> <p>If neither is available, you could also try using a glue gun, or super glue. Both of these options will require extra care and caution.</p>

Assembly Tools and Equipment	
Most of these items can be found in hardware shops, craft or hobby shops.	
Item	What's it for?
Gaffer tape (not essential)	For mock-assembling the puppet's knee joints
Pencil (not essential)	For occasional marking up
Coarse sandpaper: about 180 grit	For sanding small areas of the puppet, before staining/painting

## Assembly Tools and Equipment

Most of these items can be found in hardware shops, craft or hobby shops.

Item	What's it for?
Fine wet and dry sandpaper: 600-1200 grit	For smoothing small areas of the puppet, before staining/painting. For adding texture to the paint finish for a 'distressed' look
<u>Hand</u> countersink (ideal, but not essential)	For countersinking the holes on the hare's front legs (so that the screws sit flush)
Paint brushes and palettes	For use with wood dyes, milk paint, Danish oil and acrylic paint. Jam jar lids work well as palettes!
Pipettes	For transferring wood dyes from bottle to palette with minimum waste (I bought mine on Ebay!)
Scalpel or craft knife	For trimming the leather knee joints
Small narrow nose pliers	For tying tight knots For attaching the hare's ears and tail
Bradawl	For attaching the hare's ears and tail
Small phillips head screw driver	For attaching the hare's front legs
Small wire cutters	For trimming the eye fixings
Scissors	For trimming the braided thread, used to attach the hind legs
A 5mm drill bit (NOT essential)	For deepening the eye sockets by hand, if needed

## Other Consumables

Item	What's it for?
Jay cloths	For storing your carving tools and for cleaning brushes
3 in 1 multi-purpose oil	For storing your carving tools to prevent rust
FIRST AID KIT: plasters, antiseptic wipes, plaster tape, antiseptic cream, gauze swab, sterile dressing and bandages.	Just in case!

## Appendix: further sharpening equipment

Item	Description	Where to find (UK)
<p>Super fine wet stone</p> <p>(<u>NOT</u> essential)</p>	<p><b>Flexcut</b> tools recommend that frequent stropping with a strop will keep their tools sharp and well maintained, without the need for sharpening stones. In fact, sharpening Flexcut tools with a sharpening stone (as per convention with other tools) can risk damaging the blade, as the steel is already very thin.</p> <p>However, I find OCCASIONAL, VERY GENTLE sharpening with a VERY FINE sharpening stone can help to renew the edge. Therefore, in the long run, you may find it useful to invest in a stone, though it is not essential for this project.</p> <p>A sharpening stone is also really useful for sharpening other brands of carving tools and knives, which are often made from thicker steel.</p>	<p>This is a good, affordable option for a beginner carver (it's the first stone I owned!) I <u>just</u> use the super-fine (6000 grit) side with Flexcut tools (and only very occasionally!) I use the medium (1000 grit) side for sharpening other carving tools, which are made from thicker steel.</p> <p>This stone will need submerging in water before use (it is not an oil stone)</p> <p><b>Ice Bear Japanese Water stone – Combination 1,000/6,000 grit</b></p> <p><a href="https://www.axminstertools.com/ice-bear-japanese-waterstone-combination-1000-6000g-510469">https://www.axminstertools.com/ice-bear-japanese-waterstone-combination-1000-6000g-510469</a></p>