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**PlayMonster**



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Instructions

# Tie Dye

Create **FAB**  
Tie Dye Designs



# WARNING!

**Not suitable for children under 8 years.  
For use under adult supervision.**

Do not take the powdered dye out of the containers in which it is supplied. Once diluted, the dye must be used immediately, and any surplus must be disposed of in the household waste. Contains some chemicals which are classified as a safety hazard. Read these instructions before use, follow them and keep them for reference. Do not allow chemicals to come into contact with any part of the body, particularly the mouth and eyes. Do not inhale the dust or powder. Keep young children and animals away from the area where you are applying the dyes. Store this set in its original packaging out of reach of children under 8 years of age. Clean all equipment after use. Make sure that unused containers are fully closed and properly stored after use. Wash hands after carrying out the activities. Do not use equipment which has not been supplied with this set or recommended in the instructions for use. Do not eat or drink in the area in which you are carrying out the activities. Always use the protective gloves provided when handling the chemicals. Rinse the gloves before taking them off. Safety equipment for supervising adults is not included.

## Advice for supervising adults

Read and follow these instructions, the safety rules and the first aid information, and keep them for reference. The incorrect use of chemicals can cause injury and damage to health. Only carry out those experiments which are listed in the instructions.

This experimental set is for use only by children over 8 years.

Because children's abilities vary so much, even within age groups,

supervising adults should exercise discretion as to which experiments are suitable and safe for them. The instructions should enable supervisors to assess any experiment to establish its suitability for a particular child. The supervising adult should discuss the warnings and safety information with the child or children before commencing the experiments. Particular attention should be paid to the safe handling of acids and alkalis. The area surrounding the experiment should be kept clear of any instructions and away from the storage of food. It should be well lit and ventilated and close to a water supply.

## Dye Composition

Each bottle of dye contains 5.25g of dye mixture comprising Sodium Carbonate CAS 497-19-8, Sodium Bicarbonate CAS 144-55-8, Ethyl Cellulose CAS 9004-57-3. May contain +/- C.I. Reactive Red CAS 88232-20-6, Reactive Flavine CAS 50662-99-2, Reactive Turquoise Blue CAS 12236-86-1, C.I. Reactive Violet 1 CAS 12239-45-1



**Causes Serious Eye Irritation**

## First Aid information

In case of eye contact, rinse immediately with plenty of water, holding the eye open if necessary. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice. If swallowed, wash out mouth with water, drink some fresh water. Do NOT induce vomiting. Seek medical advice. In case of inhalation, move person to fresh air. In case of skin contact and burns, wash affected area with plenty of water for 5 minutes. In case of doubt or injury, always seek medical advice without delay. Take the chemical, its container, and this leaflet with you.

**Please add the telephone number of your local poison centre or hospital here:**

## Contents

**4 x Coloured Fabric Dye**

**(Pink, Blue, Purple, Yellow)**

**30 x Latex-Free Elastic Bands**

**2 x Pairs of Gloves**



## Instructions

# Tie Dye



# Introduction

This booklet is in two parts:

**Part 1** - Teaches you all about tie dying from start to finish with loads of helpful hints and tips. In this manual, we'll use t-shirt dying as an example.

**Part 2** - Shows you how to create some cool designs with step by step instructions.



## Part 1:

### Set up a Work Area

Tie dying can be a very messy business. Always cover the table with a plastic covering (a big rubbish bag works well) and make sure you work away from any furniture or carpet.

Make sure that you have all your supplies gathered with you at your work area before you begin.

**Top Tip:**  
Having paper towels or old rags on hand is handy in case of any accidental spills.

### Prep Your T-shirt

Soak the item you'd like to tie dye in lukewarm water.

Dying a damp t-shirt helps the colour to travel further, faster.



Do not use cold or hot water, as it can make the dyes less effective.

If you don't want the dyes to spread very far on the t-shirt, leave the t-shirt dry then add the colour.

### Prepare Your Dyes

Put on the protective gloves before handling the dyes.

Do not add water to the powder mix until you are ready to tie dye. It's a good idea to have 3-4 items ready to dye at the same time. Apply the dye within 45 minutes of mixing. Dye left unapplied after 45 minutes will begin to lose intensity and won't produce such vibrant colours. Do not tip the powdered dye out of the dye bottle.

**Top Tip:**  
Always create your brighter designs first before diluting the dye.

Add water right up to the neck of the bottle. Replace the cap tightly. Shake the bottle until the powder has dissolved.

For stronger colours, fill the bottle with less water. For softer colours, fill the bottle with more water.

### Dye Your T-shirt

Here are some Top Tips for when you start dying your t-shirts, in section 2 of this manual you'll find lots of great designs to try out!

100% Cotton materials work best for tie dying. Avoid using synthetic fabrics, as they will react with the dye differently than regular cotton and may not hold the dye.

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If you plan on layering colours, always apply the lighter colours first, eg. yellow then pink.

Be careful when mixing colours - colours opposite each other on the colour wheel eg. yellow and purple will turn a brownish colour when mixed!



You don't have to dye the entire t-shirt. You can do a few small sections of tie dye and allow the original t-shirt colour to show through. Be creative and make your design unique!

### Let The Dye Set

Once you have finished dying your t-shirt, wrap the t-shirt in a plastic grocery bag to keep it moist. Set it aside for 4-8 hours so that the dye has time to react with the cloth. Placing the t-shirt in a warm area will help the dye to cure faster.

The longer the dye sets, the more intense the colours will be.



### Rinse Out The Dye

Wearing the protective gloves, take the t-shirt out of the plastic bag and unwrap any rubber bands that you have used. Rinse the t-shirt with cold water in the sink to remove the excess dye. Be careful not to splash the water too much to avoid dying your clothes or countertops.

### Wash Your T-shirt

Put your t-shirt into the washing machine and wash on a cold cycle without adding detergents or fabric softeners. If you are dying more than 1 item at a time, **ONLY** put 1 of the items in the washing machine at once otherwise the colours may transfer. Run the wash again with an empty cycle and a little detergent to get rid of any dye that might have transferred to the inside of the machine.

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### Dry and Wear Your T-shirt

Hang the t-shirt up to dry. Once dry it is ready to wear!

### Part 2:

**This section of the manual shows you some fashionable ways to dye your t-shirt. You can also try dying a scarf, vest top or EVEN shoes!**

### Spirals

This is the most basic of the tie dye techniques and one of the most popular.

1. Lay a t-shirt flat on a countertop or table.

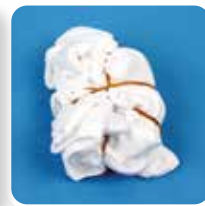


2. Then, put your thumb and index finger in the centre of the t-shirt. Begin moving them in a circular motion, spiralling the t-shirt around the centre point.



When you have spiralled the entire t-shirt, loop elastic bands around the t-shirt.

3. Use at least three elastic bands over the t-shirt to create 6 sections.



**It's now time to dye your t-shirt!**

4. First put on the gloves provided in the kit, then mix your dye following the instructions on page 5.

5. Using the squirt bottle upside down apply colour directly to the t-shirt.

6. Once the top side of your t-shirt is covered in dye, turn the t-shirt over and cover this side with dye.



7. Once your t-shirt is covered with dye, pop the t-shirt into a plastic bag and leave it to set. Follow the instructions in Section 1 to finish your t-shirt.

### Create Polka Dots

1. To create a polka dot design, take your t-shirt, and pinch small sections of fabric between your fingers.

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**Top Tip:**  
To create small dots, only leave 1 - 2cm of fabric outside of the elastic band. Larger dots can be made by tying the fabric further down so that a larger section of fabric sticks out.

2. Wrap an elastic band around the end of the fabric.

3. Add dye to your t-shirt - you can dye the whole t-shirt, or just squirt dye onto the small sections that are sticking up.



## Crumpled

This is a simple technique to make a stylish crumpled look!

Scrunch fabric into a crumpled heap.



## Squirt on Dye

Using 1 colour of dye creates the best effect for this design. Don't forget to add dye to the back of the fabric too!

**Top Tip:**  
Don't forget to put  
your gloves on before  
you begin dying!



## Stripes

1. To create colourful stripes on a t-shirt, lay your t-shirt out flat.

Starting at the bottom of the t-shirt, fold the t-shirt into pleats.



2. Pleat the whole t-shirt as pictured



3. Use elastic bands to tie the t-shirt into sections. This will create the stripe pattern on your t-shirt and also help keep your dye in sections.



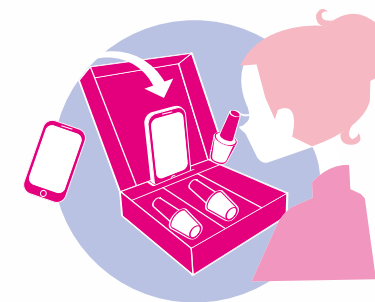
4. Squirt dye on each section of the t-shirt and continue on with the dying process as outlined in Section 1.



## Mobile Phone Holder

Included in your Fablab kit is a mobile phone holder, which lets you easily view our cool "how-to" videos packed with exciting content to discover new techniques and styles.

Simply place your phone into the holder and go to our channel at [youtube.com/fablabuk](https://www.youtube.com/fablabuk).



## Share your favourite designs!

We would love to see your creations! Share your cool tie dye designs with us on social media using by mentioning or tagging @fablabuk

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