



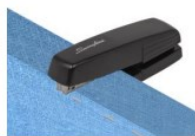
THE DESIGN CHALLENGE

Can you design and make a tote bag using an upcycled t-shirt?

Joining fabrics



Gluing



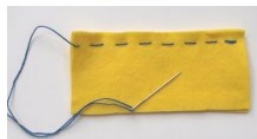
Stapling



Safety pin



Pinning



Sewing



Finishing touches

Textile paints – glitter



Adding sequins and shiny fabrics



Textile paints – raised



Fabric crayons



Glossary

pattern	A template used in sewing, from which the parts of a garment are traced onto fabric before being cut out and then put together
join	Attaching two fabrics together
decorate	To make more beautiful by adding decorations or designs
running stitch	A sewing stitch made by passing the needle in and out repeatedly with short, even stitches.
recycled	Making rubbish into something new
reclaimed	To recover and reuse materials
sustainable	The idea that humans must interact with the environment in a way that ensures there will be enough resources left for future generations



YouTube- Running Stitch

How to use a needle and thread to create a running stitch



Bitesize- Rubbish and recycling

Further exploration of the issue with text and videos



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Computing

Can you create a code to make a robot create art?

Root- basic controls

When Play Block

Code after the When Play Block will run as soon as you press the Play button.



Move Block

Use the Move Block to code Root to move forward or backward. You can also set the distance Root will move.



When Color Sensor Block

Use the When Color Sensor Block to code Root to sense and respond to a color you have chosen.



Turn Block

This Turn Block lets you code Root to turn counter-clockwise.



When Sound Block

Use the When Sound Block to code Root to respond to differences in volume.



Repeat Block

The Repeat Block tells the code inside to play over and over.



How to draw a triangle

Code Root to draw different shapes with the Marker Block. Basic code for a triangle is shown below.



YouTube- Root Guide

How to use the Root robot and app



Glossary

coding	The process of writing a computer program
instructions	Signals or data that is received by a computer to give it an action
debugging	The process of identifying and removing errors from computer hardware or software.
functions	a “chunk” of code that you can use over and over again
output	How a computer presents what has been inputted (on the screen, printing etc.)



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