

Sustainable Fabrics and Recycled Materials

A presentation about the sustainable use of materials.

Sustainable material

A Definition:

Sustainable means an action that can be kept going for ever, something that can continue to be done without it having damaging consequences that might limit that activity in the future.



Sustainable material or a sustainable resource is something whose production is supported indefinitely by nature, which means, a resource is used up at the same speed that it is renewed.



What are sustainable materials

Sustainable materials are those that can be produced without depleting non-renewable resources and without harming the environment or key natural resource systems.



 Paper	 Batteries
 Plastics	 Glass
 Used Oil	 Tires

Word bank for sustainable material



Pinatex- pineapple leather
- made from pineapple
leaves

eco-friendly



Organic
cotton

Linen
bamboo; wood; hemp;
wool; linen; straw; clay,
stone, sand; beeswax;
and coconut.

RAYON & MODAL

wool



Sustainable material facts

Sustainable Fabrics

Organic Cotton - not conventional cotton production as it depletes the soil nutrients. Organic cotton is sustainable.

Linen - Linen is super low-impact and is an inherently more sustainable fibre because it doesn't grow on fertile soil.

Linen doesn't need pesticides because it's a hardy crop and doesn't need to be irrigated.

You can blend it.

Wool - Wool is a great fibre. A top tip is that New Zealand wool often has very high animal welfare. With wool, it's how it's processed, and often it's best to go local and go for British wool. The wool from the Scottish Highlands is contributing to the whole area and the livelihoods of the people, so it's an important part of the economy too.

Wood - Fibres from wood can be made into material for clothes. If they come from sustainable woodlands then the fabric would be considered sustainable.

Recycled materials

- ▶ Recycling is the process of converting waste materials into new materials and objects. ... Materials to be recycled are either delivered to a household recycling centre or picked up from curb side bins, then sorted, cleaned, and reprocessed into new materials destined for manufacturing new products.

What are recycled materials

Recyclable materials include many kinds of glass, paper, cardboard, metal, plastic, tyres, textiles, batteries, and electronics. The composting or other reuse of biodegradable waste—such as food or garden waste—is also a form of recycling



Recycled Materials - Fun Facts

- ▶ Aluminium cans are lighter than steel, and the base of an aluminium can is shinier. A magnet will stick to a steel can, but it will not stick to an aluminium can.
- ▶ Making one can from raw materials uses the same amount of energy that it takes to recycle 20 cans.
- ▶ The average UK household uses around 600 steel cans every year.
- ▶ The aluminium drinks can is the world's most recycled packaging container - worldwide over 50% of aluminium cans are recycled.
- ▶ Recycling one aluminium can saves enough energy to power your TV for three hours
- ▶ Around 14 million glass bottles and jars are sent to landfill in the UK every day.
- ▶ Recycling one glass bottle or jar saves enough energy to power your computer for 20 minutes.
- ▶ Glass can be recycled again and again - containers made from recycled glass are of the same high quality as those made from new raw materials.
- ▶ Green glass bottles are made with up to 90% recycled glass.
- ▶ The glass we recycle in the UK each year saves enough energy to launch 10 space shuttle missions.
- ▶ The average person living in the UK uses around 200kg of paper every year.
- ▶ Paper and card make up 40% of the waste collected for recycling from UK households.
- ▶ For every tonne of recycled newspaper, we save 17 trees.
- ▶ Recycling paper saves almost 80% of the energy needed to make paper from new raw materials.
- ▶ It can take just seven days for old magazines and newspapers to be recycled into new ones.
- ▶ In the UK we throw away around 455,000 tonnes of plastic bottles every year - equivalent to around 9.1 billion bottles.
- ▶ It takes just 25 two-litre plastic bottles to make a recycled fleece jacket.
- ▶ Recycling just one plastic bottle saves enough energy to power a 60W lightbulb for six hours.
- ▶ Around 11% of our household waste is plastic and 40% of this is plastic bottles.
- ▶ There are around 500 plastic bottles in a typical bale and you need around 20,000 plastic bottles to make one tonne.

Word bank for recycled materials

Reduce - Re-Use - Recycle

- Clothes
- Shoes (in pairs)
- Soft toys
- Bags and belts
- Towels
- Blankets
- Pillows, sheets, duvet covers
- Curtains



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tin

rag-pickers

Second hand

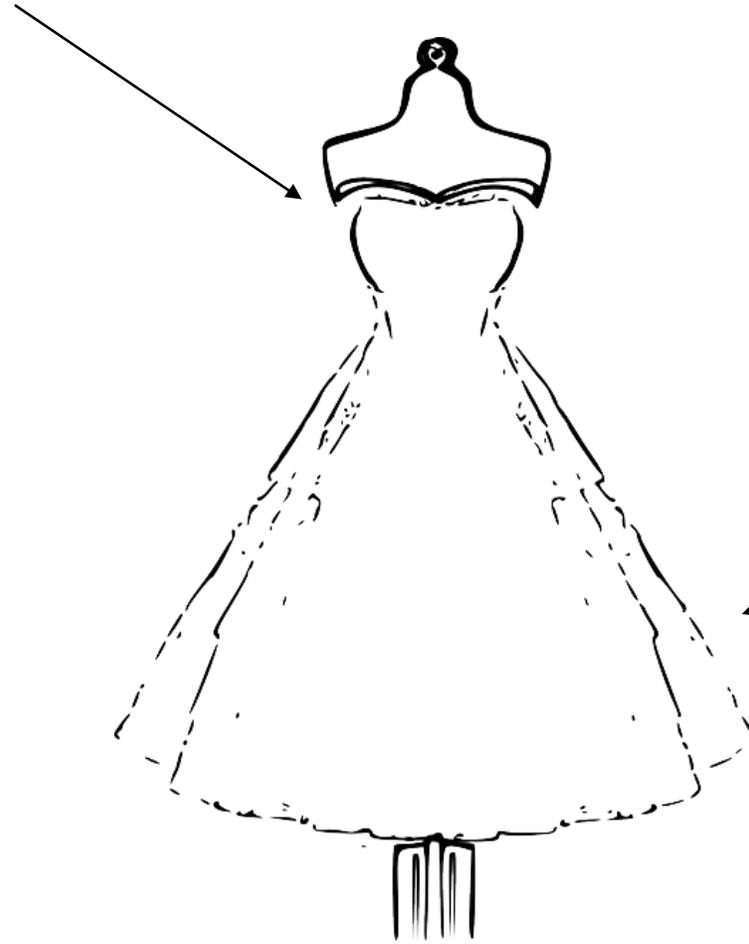
plastic





Re-used Cereal Box Dress

Sweet wrappers



Cereal boxes



The process to make the dress.



Layout your dress pattern



Cut out your cereal boxes



Pin your recycled items to your pattern



Sew your boxes together



Form the skirt of your dress

.... And look what you get.....

...The perfect recycled materials dress...

