

# D&T Sustainability Challenge

How sustainable and environmentally-friendly are you?

Explore four different areas in our subject and use your creativity and ingenuity to take on each sustainability challenge!

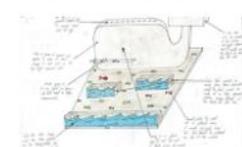
Take good care when using equipment and always get permission from your parent or carer before using them.

Don't forget to send us pictures of your amazing creations!

## ENGINEERING

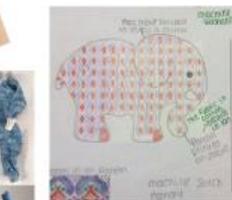


## 3D DESIGN



## RECYCLED STORAGE SOLUTION

## D&T Textiles



## UPCYCLING

## SEASONAL FOODS & REDUCING WASTE

### Food & Nutrition



# ENGINEERING



## YOUR CHALLENGE: MARBLE RUN

Go to.....

<https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html>

Look at challenge 3 and watch the YouTube clip for instructions.

<https://youtu.be/IN0Wn0XgPXQ>

Look at challenge 3 and watch the YouTube clip for instructions.

Using cardboard, and other reusable items found at home to create a marble run.

If you don't have a marble, you could also use a bouncy ball or a small ball.

Checkout ideas online for inspiration!





## **YOUR CHALLENGE:** **SEASONAL FOODS &** **REDUCING WASTE**

Carry out some research into seasonal foods. What produce are in season in the UK summer?

Once you have found that out, design a dish using some of those ingredients and cook it if you can!

*Seasonal recipes you may like to try*

<https://www.bbcgoodfood.com/recipes/tomato-courgette-risotto>

<https://www.bbcgoodfood.com/recipes/green-bean-mac-n-cheese>

<https://www.bbcgoodfood.com/recipes/individual-summer-puddings>

Why not also try re-growing some vegetables from scraps? Watch them grow then use them in your recipes!

# 3D DESIGN



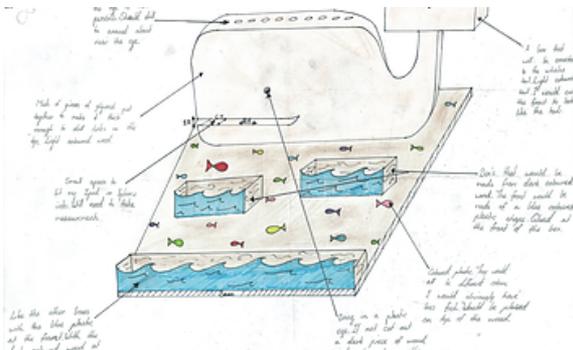
## YOUR CHALLENGE: RECYCLED STORAGE SOLUTION

Using recycled cardboard, paper or paper based food packaging, make a storage solution of your choice.

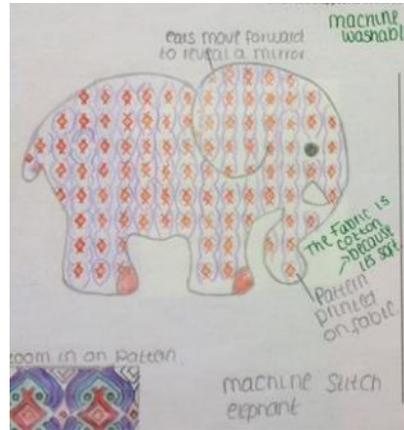
If you don't have the equipment that this requires, design an item instead.

Some ideas could include, a wall mounted storage unit, a desk tidy or a jewellery box. Be creative!

You could paint your storage solution to add colour, leave it plain or use the colours, patterns and writing on the recycled materials you use as a part of your design.



# D&T Textiles



## **YOUR CHALLENGE:** **UPCYCLING**

Upcycle an old item of clothing, bedding or scrap fabrics into something new! Try to make a functional product that you or your family could use.

If you don't have the equipment that this requires, design an item instead.

Some ideas could include, a bag, soft toy, storage container, hairband, games or cushion covers. Be creative!

Items can be handsewn or made on a sewing machine.