
Whilst working from home, we will be working on two mini projects centred around design and sustainability.

Each mini project will be graded and you have the opportunity to earn three positive points by completing the project, plus additional positive points for outstanding work.

Each lesson will begin with an introduction, after which you will have written tasks to complete and time to work on your design.

LI: To research, design, produce and evaluate an upcycled planter.



Working Timeline

- Written tasks for each lesson should be submitted for marking within a week. Work can be uploaded to ClassCharts or shared with me via your Stewards academy One drive.
- If you need help you can message me via ClassCharts.
- Have fun with the project, I look forward to seeing your amazing designs.



Week 1

Complete all research tasks and create design ideas.

Submit Activities 1, 2 and 3.

Week 2

Gather materials and test materials.

Make product and test product.

Submit Activities 4 and 5.

Week 3

Evaluate product and make improvements.

Submit Activities 6 and 7 plus an image of your design.

Planter Project



Lesson Objectives

- To learn and apply effective research techniques.
- To develop communication of ideas and apply creative thinking techniques.
- To apply rapid prototyping skills to a physical model.
- To evaluate effectiveness of design solutions and make improvements.

Activity 1

Carry out some research on the internet, try to use Uk websites. Then...Using a table like the one below list the possible positive and negative aspects of recycling.

Positive	Negative

In your opinion is recycling good or bad? Justify your answer in the box below.

Activity 2

Using the table, consider all the ways you could apply the 6 R's to your normal life, look at things around your house. I have put some examples in the table to help you.

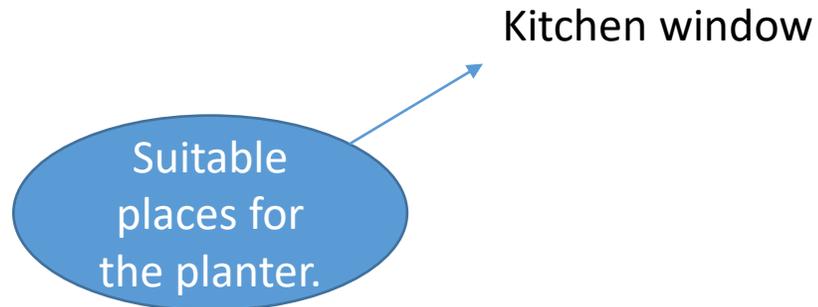
The 6 R's	Example	Your answers
Reduce	I probably don't need to use plastic bags when I go shopping I could reduce the amount I use or buy.	
Refuse	I will not buy small plastic water bottles.	
Repair	I could sew torn clothes to make them last longer.	
Recycle	I should recycle old clothing.	
Re-use	I could repurpose some old products.	
Rethink	Maybe I don't need to always drive to the shops. I could walk instead.	

Activity 3

Which of the 6 R's will your planter product help to achieve?

The 6 R's	How will the planter affect this?
Reduce	
Refuse	
Repair	
Recycle	
Re-use	
Rethink	

Create a mind map of the best places to keep your planter, think about access to light and ease of watering.



Activity 4

Design ideas. Remember – if possible, use colour and use shading . Add annotations, these are labels that explain your ideas more clearly.

Activity 5

Model. List the materials you have and what you are going to use them for. You can then upload a photo of your finished model to ClassCharts.

Recycling items	What I will use them for

Activity 6

Evaluate your product

Cost	
Aesthetics	
Function	
Ergonomics	
Quality	
User	
Environment	

Aesthetics	
Cost	
Customer/client	
Environment	
Size	
Safety	
Function	
Materials	

Top Tip

Google the words if you are not sure what they mean.

Activity 7

What changes would you make and why?

Stretch

Challenge: Add new sketches of the changes you would make to improve your product here. As a further challenge make a new product with these changes and compare it with your original piece.