

Upcycle Product Design [GLOBAL ISSUES]

PROJECT STEPS	WAYS OF PROBLEM SOLVING AND SHARING YOUR PROJECT		
Dream It!	SOLOIST We/I had no need for brainstorming ideas, we only listened to one person who had a pretty good idea How many ideas did you explore?	COLLABORATOR We/I took turns brainstorming and discussed various solutions according to our constraints and time and different perspectives How did you choose an idea to explore deeper?	INNOVATOR We/I studied other ideas for inspiration, brainstormed and discussed multiple options, then came up with a unique solution How did you choose an idea to explore deeper?
Draw It!	EXPLORING My model or drawing can be explained by the makers	EVOLVING My model drawing can be understood by anyone because it is clearly labeled, to scale	EXPANDING I used 3D sculpting tools, like TinkerCAD, Fusion 360
Build It!	EXPLORING This is all new for me, I am trying new tools or materials and I am not sure what will happen	EVOLVING I am experienced with the tools and materials, I am able to make several iterations of my idea with ease	EXPANDING I am experienced with the tools and materials, I am able to make several meaningful iterations of my idea based on testing and feedback
Share It!	PEER PUSH Share your global solution with someone who did not make it, ask them for their feedback and suggestions on how to improve the design	COMMUNITY CONNECTION Share your project in a school wide or online family share showcase where you can explain the process of how you made your design	GLOBAL GURU Share your global solution with others so they can learn from you. Consider using TikTok, Instagram, Tumblr or Twitter if you are 13 or older
Expand It!	SOLOIST I took my design and tried various changes to its design based on my testing	COLLABORATOR After documenting, testing, and listening to the feedback of others, I changed my design and it is better with the help of others	INNOVATOR I created something that we have never seen or mashed together different crazy Ideas to make something new.
Makers Choice Is there a criteria that you feel your project or efforts should be evaluated on that is not listed yet? If so, write it here:			

Upcycle Product Design [GLOBAL ISSUES]

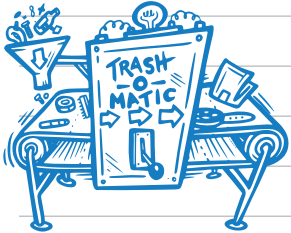
RATE THIS PROBLEM:

How hard was this project over all? (Check appropriate box)

1	2	3	4	5	6	7	8
EASY							HARD
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REFLECT ON YOUR PROBLEM:

What made it hard (lack of ideas, knowledge, time, materials, help, tools, etc.)?



All designers and engineers get stuck when making something for the first time. When I got stuck or needed inspiration what did I do?

- ☐ Did I use a tutorial? (listen and watch to learn)
- ☐ Did I discuss my ideas with others in person or online? (discuss to learn)
- ☐ Did I start to build even before I totally knew what I was doing? (tinker to learn)

1. Upcycling is the process of taking a used or discarded object or material and making it into something of greater value than the starting material. Why do you think upcycled products gaining in popularity in stores and Etsy?

2. Upcycling is another form of resourcefulness. Many cultures are famous for the creative reuse of materials and garbage. Research one of these cultures and share their solutions with a friend.

3. Upcycling is related to green solutions, such as adopting green energies. How is the stream of product design related to the consumption of energy and why do we need to be making more sustainable choices in both areas?