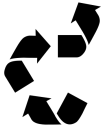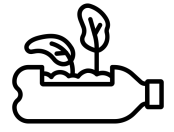# Upcycling Design Specifications

How should systems be sustainable to minimize negative human impact on the environment?

Need help with design specifications?
Check out the example of design specifications for a pencil case (video, time is 2:29; You only need to view up to about 2:03): https://safeshare.tv/x/UMH8gHl4kS4

Categories	Descriptions	Design Specifications
Materials - General	What shall the gift be made of? Try to use 100% non-new plastics.	
Materials - Plastic Amount	How much used plastic shall be in the gift? One-fourth, one half?	
Materials - Source	Where will the upcyclable materials come from at school?	
Target Audience	Which school community member shall receive the upcycled gift?	
Product - Use	What is the product? How shall the upcycled gift serve its audience for at least one year? Will it entertain, inspire, inform?	
Product - Aesthetics - General Looks	What shall the gift look like? How will the gift be obvious how it is to be used and appreciated? Reference shapes such as sphere, cylinders, cubes, etc.	
Product - Aesthetics - Color	What shall be the dominant color(s) of the gift? Specify one to three colors.	
Product - Aesthetics - Craftsmanship	How will you make sure that all material parts fit together orderly and precisely?	
Strength- Construction Quality	How shall the gift be sturdy (not fall apart with everyday use for at least one year)? Consider slots and tabs to connect parts. What kind of surface preparation shall be used (Ex. 1, 2)? What type of glue shall be used? Note: Tape shall not be used.	
Safety	How shall the gift be safe to use?	
Size	What shall be the size of the upcycled gift?	The gift shall meet the following size requirements: Length → 5 to 25 centimeters Width → 5 to 15 centimeters Height → 5 to 15 centimeters