

Environmental Impact Reflection

Analyze the environmental consequences of your design. Complete the following sections in your group and consider how your prototype could become more sustainable.

1. What materials did you use?

Identify all the materials used in your prototype.

- Are they reusable, recyclable, biodegradable or single-use?
- Where do these materials usually come from?
- Could you replace any of them with eco-friendlier alternatives?

2. How much waste would your design generate?

Think beyond the prototype—imagine if this solution were mass-produced.

- Would it require batteries or electronic components that are hard to dispose of?
- Would packaging be necessary? Is it recyclable?
- How often would users need to replace it?

3. How much energy does it consume (if any)?

Consider how your design works and whether it needs electricity, charging, or other energy sources.

- Could it run on renewable energy or require less power?
- Are there low-tech or analog alternatives?

4. Could your design be repaired, reused, or repurposed?

Think about the life cycle of your product.

- Can broken parts be easily replaced?
- Could it be reused by someone else or adapted for a different purpose?
- Does your design promote a circular economy?

5. Improvement Idea

Describe at least one concrete change to make your prototype more sustainable.

- Could you use fewer materials?
- Could you replace any part with recycled or upcycled components?
- Could your design include instructions for eco-friendly disposal or reuse?



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