GPGP Device Testing and Design Reflection

Data Collection

Build and test your design system. Use the chart below to make observations and record your findings.

Time Elapsed (s)	Number of Plastic Pieces Collected	Stayed Afloat? (Yes/No)
30 seconds		
60 seconds		
90 seconds		
120 seconds		
150 seconds		

Reflection Questions

Technology is anything that is designed to meet a need or solve a problem. What problem is your technology trying to solve?
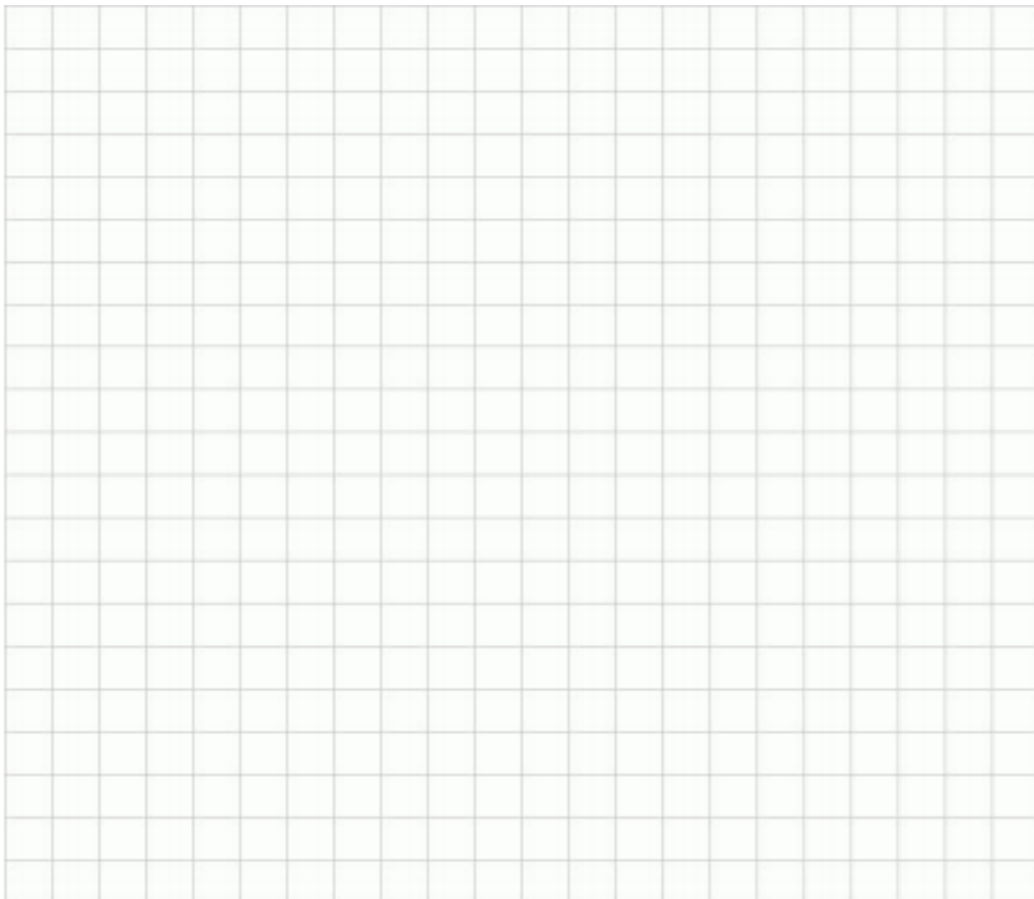
How well did your design collect plastic pieces in the simulated Great Pacific Garbage Patch?

Where was your design successful? Where did it fail?

Are there parts of your system that you would like to improve? Circle or highlight them on your sketch and use the space below to write about the changes you would make.

Sketch A New Design

Sketch a new/modified design based on your learning in the test. Be sure to label parts and supplies.

Prepare to Share

In the next step of the engineering design challenge, you are going to share your findings with people who may not be familiar with the Great Pacific Garbage Patch and System 001 (why it was designed and how it is supposed to work). Write down a list of things that you would like to share with them. Think about how you can convince them to provide funding support for your design.

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