**Research and Brainstorm - Worksheet #1**

**Problem:** You and your family recently went to your favorite place on the water to spend the day fishing and swimming but as you neared the water you noticed warning signs saying it was unsafe to enter the water due to the presence of toxic algae.

1. **Ask**: What is the problem?
2. **Research**: Do algae blooms occur in other parts of the United States?

1. **Research:** Some real-world solutions to removing algae are skimmers, water treatment plant, water filters. Choose two current solutions to research in more depth.
2. **Brainstorm:** How can you improve and modify ONE existing engineering design?
3. **Brainstorm:** Based on your research, brainstorm as many ideas as you can of how algae blooms can be removed. (Remember, no idea is a bad idea!)