**Paper Towels, Pool Balls Challenge**

**Engineering Design Process Notebook**

A close up of a logo

Description automatically generated

1. **Identify the problem**
2. **List the problem constraints**
3. **Brainstorm/create possible solutions as a group.** List ALL ideas in the group and include sketches. Attach additional paper if necessary.

1. **Plan a solution.** Based on the brainstormed ideas, choose one solution as a group. Describe the chosen solution and list as many details as possible.

1. **Collaboration.** Write down any ideas you gained from conversing with the other groups.
2. **Update your brainstormed solution.** Describe what changes you made.
3. **Create your planned solution.** Keep track of what is working, what is not working, and any design changes that needed to be made.
4. **Evaluate your prototype.** What worked? What didn’t work?

1. **Improve the design as needed.** Discuss as a group what you would change if you had the time to redesign.