Lego Launcher Machine







K-2

3-5

6-8

Objective:

Build a machine to launch your ping pong ball the farthest (measured perpendicular from the starting line)

Engineering Constraints:

Size Limit of 16-stud baseplate

Materials:

Legos & Rubber Bands









Engineering Design Process:

- Brainstorming session
- Design sketch with pieces you need
- Build
- Test and modify as needed until the competition
- Compete
- BREAK (45 mins)
- Redesign or tweak based on learnings from last competition
- Retest and modify if needed
- FINAL COMPETITION

Future Improvement:

What worked the best? Why? Bring out impact, explain why that goes farther.

[get a simple physics explanation for catapult v slingshot v impact]

Notes: need paper and pencil to sketch plans