**Chain Reaction Mini-Camp Lesson Plan**

**Instructors: Ben Severns, Spencer Ruskin**

**Class age: 13-16**

**Class Outline:**

10a Introductions/Rules.

“What do you think this class will be about?”

Discuss machines, chain reactions.

Telephone games (5 minutes) & why it relates

10:25 Introduce motors and electrical components

Discuss all the materials we have available

10:45 Talk about Pico Crickets/sensors

Introduction to programming

Noon LUNCH TIME

12:30 Sketch ideas for machine

Discuss potential for programmed/non-programmed movement

12:50 Begin combining parts/ideas/drawings on white board (stressing ease of execution)

What is the end goal of this machine?

Why are we making it?

1:20 Divide into teams of 2/Assembly/Program time

2:45 Troubleshooting/Testing time

3:30 Final(-ish) performance

3:45 Present to any parents present