Engineering by Land, Sea & Air Camp

Sample Schedule

The following is a tentative schedule. All aspects are subject to change.

Week 1

Introduction

Mon – Fri
Mon, Wed, Fri a.m. ZOOM session - intro and question and answer session

Intro to Engineering Design Challenges
- Intro via ZOOM session
- Challenge instructions (no video)
- Submit video results

Learn to solder - Steadiness Circuit
- Intro via ZOOM session
- Video Instructions
- Submit video/photo results

Week 2

Engineering by Land

Mon - Fri
Mon, Wed, Fri a.m ZOOM session - intro and question and answer session

Ramp challenge
- Create a sharable ramp (PVC and coroplast)
- intro via ZOOM session
- Challenge instructions (no video)
- Submit video results

Belt Drive Car
- Intro via ZOOM session
- Video Instructions
- Submit video/photo results
Week 3  Engineering by Water
Mon - Fri  Mon, Wed, Fri am ZOOM session - intro and question and answer session

Challenge: Rubber band powered vessel
- Intro via ZOOM session
- Challenge instructions (no video)
- Submit video results

Propeller Boat
- Intro via ZOOM session
- Video Instructions
- Submit video/photo results
- May use Bath tub for testing

Week 4  Engineering by Air
Mon - Fri  Mon, Wed, Fri am ZOOM session - intro and question and answer session

Challenge: Paper Stomp Rockets
- Create Stomp mechanism
- Intro via ZOOM session
- Challenge instructions (no video)
- Submit video results

Plane on a Stick or (Tethered Drone)
- Intro via ZOOM session
- Video Instructions
- Submit video/photo results
- May use Bath tub for testing

Week 5  Open Challenge
Mon - Fri  Mon, Wed, Fri am ZOOM session - intro and question and answer session

Propulsion-Switch challenge
Either create a new propulsion strategy OR use one method that we learned in a different way.
- Intro via ZOOM session
- Submit video/photo results
- Zoom Session Presentations