



Class Title: Orange Engineering Fun

Teacher Name: Megan VanderHeide

Class Day: Friday

Class Size: 12

Class Cost: \$60

Class Fee: \$96

Ages or color group served: Orange

What level is this class: Level 1

Prerequisites: NA

Graduation Requirements: NA

Homework Requirements: NA

Class Description:

In this hands-on engineering class, students will become problem-solvers, designers, and inventors as they take on exciting weekly build-and-test challenges. Each project begins with a planning session where students brainstorm, sketch, and design their ideas. The following week, they put their plans to the test—building, experimenting, and improving their designs.

Projects include creating an egg drop device, designing mini boats, constructing balloon-powered cars, and building marble roller coasters. Students will also tackle real-world inspired engineering challenges like designing a prosthetic leg and completing a mystery challenge at the end of the semester.

This class encourages creativity and critical thinking while letting students learn by doing. Every week brings a new chance to test ideas, problem-solve, and celebrate innovation!

Week 1:

Egg Drop Device Plan

Week 2:

Egg Drop Device Test

Week 3:

Mini Boat Plan

Week 4:

Mini Boat Test

Week 5:

Balloon Car Plan

Week 6:

Balloon Car Test

Week 7:

Marble Roller Coaster Plan

Week 8:

Marble Roller Coaster Test

Week 9:

Prosthetic Leg Plan

Week 10:

Prosthetic Leg Test

Week 11:

Mystery Challenge Plan

Week 12:

Mystery Challenge Test

