

FLIGHT SCHOOL

Wednesday, September 14-December 14 (no class Oct 10-14 and Nov 21-25; 12 weeks)

11:15am-12:30pm

Ages 11+

Students learn about the multitude of ways to fly whether it's done by animals, motorized, glides, or projected. They will investigate and test different flying techniques as they move from the ground up. All lab costs are included in registration fee.

Instructor: Candra Eden, BSc

Location: STEM Lab (suite 21)

Course fee: \$275 OR \$25/lab

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

PAPER AIRPLANES - Wednesday, September 14

We introduce ourselves to the forces of flight as we build and repurpose items into paper airplanes.

PARACHUTES - Wednesday, September 21

We investigate the physical characteristics of items that utilize drag as we work on building effective parachutes.

HOT AIR BALLOONS - Wednesday, September 28

Kids learn about the properties of balloons and heat as it relates to flight and motion as we make a model of a hot air balloon.

PROJECTILES - Wednesday, October 5

Students learn about projectile flight paths through the air as we construct slinging, catapulting items.

HOVERING - Wednesday, October 19

Students investigate and build hovering objects as we experiment with magnets and balloons.

STATIC ELECTRICITY FLOATING - Wednesday, October 26

Students learn about the properties of static electricity and create floating dancing creatures.

DRONES - Wednesday, November 2

This week, we learn about controlled flight and we experience how drones work and how to control them.

ANIMALS THAT FLY - Wednesday, November 9

Today, we discuss the different species and characteristics of flying animals as we create and compare various wings.

KITES - Wednesday, November 16

Students investigate the history, art, and skill set of flying kites as they work to engineer their own.

FLIGHT SIMULATOR - Wednesday, November 30

Students test out flight simulators as they artificially recreate aircraft flight, the environment in which it flies, and learn the layout and design of an airport runway.

Laptops are required for this class.

NASA FLIGHT TRAINING - Wednesday, December 7

Students see what it takes to be a NASA pilot as we discuss and train through various simulations.

BOTTLE ROCKETS - Wednesday, December 14

Students work to design, build, and test small rockets as they learn how chemical reactions fuel their takeoff.