

# William Land Elementary School After School Enrichment Program

## Engineering Design Club

Academic Year 2018 – 2019

Instructor Bob Suits

This course uses group activities to introduce students to:

- engineering practices including design, measurement and testing.
- engineering habits of mind.
- the role of creative thinking and communication in engineering.

The design component of the class will consist of designing some games and several engineering-related products. Activities will collectively cover content from engineering, science and math:

Engineering water treatment, water quality, solar energy, structures, surveying.

Science physics, soil science, water quality.

Math simple probability and statistics, sampling, ratios, making and interpreting graphs.

### Requirements

All activities are completed in teams of 3 to 4 students, so each student must be able to cooperate with other members of the team. This means respecting the ideas of other team members and allowing others an opportunity to contribute. It also means that all team members are expected to fully participate in all aspects of the activities.

### Please Note

In this course, students will **NOT** be working with LEGOS or similar popular commercial products and toys. Neither will robotics be covered. For the most part, activities will use materials readily found around the house. Several activities will use only pencil and paper. All supplies needed for the class will be provided by the instructor.

# Application Form

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Please submit application to the school office in assigned boxes by **September 14, 2018**. If the number of applications exceed positions available, students will be chosen by lottery.

### Student

Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ Grade: \_\_\_\_\_

### Parent/Guardian

Name: \_\_\_\_\_

Best Contact Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

### Class Schedule

Day and Time            **Wednesdays 3:15 – 4:15pm**

Parents will get an email from the instructor on start date and expected dates of all classes for the year.

Students are expected to attend regularly and exhibit good behavior which includes respecting the other students, the class materials and the instructor.

Parent's Signature: \_\_\_\_\_ Date: \_\_\_\_\_