

William Land Elementary School After School Enrichment Program

Engineering Thinking and Problem Solving for Sixth Graders

Academic Year 2020 - 2021

This online course uses paper and pencil activities to introduce students to engineering thinking and creative problem solving.

Activities include:

- Slow looking practice noticing content in images.
- making assumptions and estimations.
- making and testing hypotheses.

Sixth-grade math will be reinforced through practice with simple probability and statistics, sampling, ratios, making and interpreting graphs, and geometry.

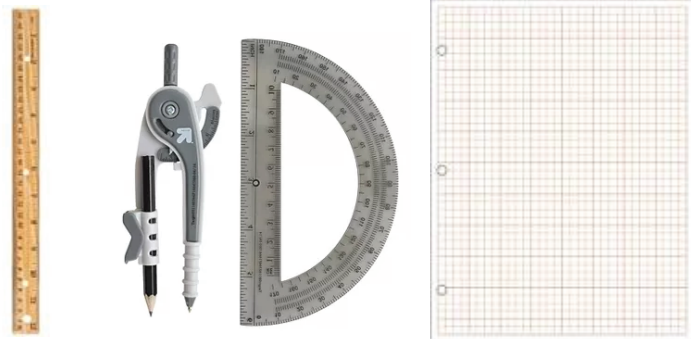
Requirements

This class is intended for 6th grade students. Fifth grade students will be considered on a case-by-case basis. We're going to try to have students work in groups in Zoom break-out sessions, so each student must be able to cooperate with other team members. This means respecting the ideas of other members and allowing others an opportunity to contribute. Students are expected to fully participate in the activities.

Materials Needed

- Compass and protractor
- graph paper
- ruler

A compass and protractor can be obtained from Target for \$3.40. Graph paper and ruler from Dollar Tree from \$1.00 each.



Class Cost

Free

Tentative Schedule

Wednesdays 3:30 - 4:30

Instructor Contact

Bob Suits

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