

Common Core Math—An Alarming Idea: Designing Alarm Circuits

Engineering is Elementary units are designed primarily to teach engineering skills and habits of mind. In doing so, all units also reinforce and link to other content areas. The math practices and standards addressed by this unit are listed below.

Math Practices Embedded Throughout the Unit:

1. Make sense of problems and persevere in solving them.
2. Reasons abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.

Grade	Lesson #	Common Core Math Cluster or Practice	Common Core Math Standard
1	3, 4	Measurement and Data 1.MC: <ul style="list-style-type: none">• Represent and interpret data	1.MD4: Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.
1	3, 4	Geometry 1.G: <ul style="list-style-type: none">• Reason with shapes and their attributes.	1.G.2: Compose two-dimensional shapes to create a composite shape, and compose new shapes from the composite shape.
2	3, 4	Geometry 2.G: <ul style="list-style-type: none">• Reason with shapes and their attributes.	2.G.1: Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.