

# Common Core Math— Solid as a Rock: Replicating an Artifact

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.

Grade	Lesson #	Common Core Math Cluster or Practice	Common Core Math Standard
1	4	Operations and Algebraic Thinking 1.OA: <ul style="list-style-type: none"> <li>• Represent and solve problems involving addition and subtraction.</li> </ul>	1.OA.1: Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions. 1.OA.2: Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.
1	3, 4	Measurement and Data 1.MC: <ul style="list-style-type: none"> <li>• Represent and interpret data.</li> </ul>	1.MD.4: 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.
2	4	Operations and Algebraic Thinking 2.OA: <ul style="list-style-type: none"> <li>• Represent and solve problems involving addition and subtraction.</li> <li>• Add and subtract within 20.</li> </ul>	2.OA.1: Use addition and subtraction within 100 to solve one-and two- step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. 2.OA.2: Fluently add and subtract within 20 using mental strategies.

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Grade	Lesson #	Common Core Math Cluster or Practice	Common Core Math Standard
4	3	Measurement and Data 2.MD: <ul style="list-style-type: none"><li data-bbox="499 380 1243 448">• Geometric measurement: understand concepts of angle and measure angles.</li></ul>	2.MD.3: Estimate lengths using units of inches, feet, centimeters, and meters.