

Common Core Math— Package Engineering: Designing Plant Packages

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. Reason 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"> • Represent and solve problem involving addition and subtraction. • Add and subtract within 20. 	6. Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 7. Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.
1	4	Number and Operations in Base 10 (NBT)	1. Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. 4. Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction;
1	4	Measurement and Data 1.MC: <ul style="list-style-type: none"> • Tell and write time • Represent and interpret data 	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,

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			and how many more or less are in one category than in another.
2	4	Number and Operations in Base 10 (NBT)	6. Add up to four two-digit numbers using strategies based on place value and properties of operations.
3	4	Operations and Algebraic Thinking 3.OA <ul style="list-style-type: none">• Represent and solve problems involving multiplication and division	1. Interpret products of whole numbers.