

Below are the key skills that students should possess by the end of the first semester of Introductory Algebra. They are based on the Common Core State Standards and are written in student-friendly terms. The learning targets are grouped by unit of study, and the corresponding state standards and textbook resources are listed. Bold lines indicate the end of a quarter.

| <b>Power Standard</b>                      | <b>#</b> | <b>Learning Target</b>  | <b>CCSSM</b> | <b>Textbook Resource</b> |
|--|----------|---|--------------|--------------------------|
| <b>Numeric Expressions</b>                 | 1        | I can add, subtract, multiply, and divide whole numbers.                    |              | 2.1-2.4                  |
|  | 2        | I can add, subtract, multiply, and divide integers.                         |              | 3.1-3.4                  |
|  | 3        | I can add, subtract, multiply, and divide fractions.                        |              | 4.1-4.4                  |
|  | 4        | I can add, subtract, multiply, and divide decimals.                         |              | 5.1-5.4                  |
| <b>Intro to Equations and Inequalities</b> | 5        | I can solve one-step equations and inequalities by adding or subtracting.   | A.REI.1      | 6.2, 6.3, 7.1-7.4        |
|  | 6        | I can solve one-step equations and inequalities by multiplying or dividing. |              | 8.1-8.4, 9.1-9.2         |
| <b>Solving Equations and Inequalities</b>  | 7        | I can solve two-step equations.   | A.REI.3      | 10.1-10.3                |
|  | 8        | I can solve two-step inequalities.  |              | 11.1-11.3                |
|  | 9        | I can distribute and combine like terms.                                    |              | 12.1-12.2                |
|  | 10       | I can solve multi-step equations.   |              | 13.1-13.4                |
|  | 11       | I can solve multi-step inequalities.  |              | 14.1-14.4                |
|  | 12       | I can solve proportions.  |              | 15.1-15.4                |

Below are the key skills that students should possess by the end of the second semester of Introductory Algebra. They are based on the Common Core State Standards and are written in student-friendly terms. The learning targets are grouped by unit of study, and the corresponding state standards and textbook resources are listed. Bold lines indicate the end of a quarter.

| <b>Power Standard</b>                 | <b>#</b> | <b>Learning Target</b>  | <b>CCSSM</b>    | <b>Textbook Resource</b> |
|---------------------------------------|----------|---|-----------------|--------------------------|
| <b>Functions and Linear Equations</b> | 13       | I can find domain and range, use function notation to write rules, and determine if a relation is a function.                                       | F.IF.1, 2       | 1.1-1.4                  |
|                                       | 14       | I can find the slope of a line.   | F.IF.6          | 2.1-2.4                  |
|                                       | 15       | I can graph linear equations and inequalities in slope-intercept form.  | F.IF.5,7a       | 3.1-3.4                  |
|                                       | 16       | I can graph linear equations and inequalities in standard form.   | F.IF.5,7a       | 4.1-4.3                  |
|                                       | 17       | I can write linear equations from two points in point-slope, slope-intercept, or standard form and change between forms.                            | F.IF.4          | 5.1-5.4,<br>6.1-6.2      |
|                                       | 18       | I can determine if lines are parallel, perpendicular, or neither.   | F.IF.6          | 7.1-7.4                  |
| <b>Statistics</b>                     | 19       | I can collect and analyze data by finding mean, median, mode, range, standard deviation, and outliers.  | S.ID.1,<br>2, 3 | 8.1-8.3                  |
|                                       | 20       | I can display data using stem-and-leaf plots, box-and-whisker plots, histograms, and scatterplots.  |                 | 9.1-9.4                  |
| <b>Systems</b>                        | 21       | I can write linear equations from given information (slope and y-intercept, point and slope, point and parallel/perpendicular line, or two points). | A.CED.2         | 11.1-11.4                |
|                                       | 22       | I can solve systems by graphing.  | A.REI.6         | 12.1-12.4                |
|                                       | 23       | I can solve systems by substitution.  | A.REI.3         | 13.1-13.4                |
|                                       | 24       | I can solve systems by elimination.   | A.REI.5         | 14.1-14.4                |
|                                       | 25       | I can solve systems of inequalities by graphing.  | A.REI.12        | 15.2-15.3,<br>16.1-16.4  |