

## Skills Inventory Chart

Problem	+/-	Skill	Objectives
All 1-24		<b>Problem Solving</b>	<ul style="list-style-type: none"> <li>Make an attempt at a problem, even when uncertain of the exact steps necessary to solve (persevere in solving).</li> </ul>
1, 2, 8, 12, 13, 16, 17, 19, 20, 22		<b>Number Relationships</b>	<ul style="list-style-type: none"> <li>Find the least common multiple (LCM) of a set of numbers.</li> <li>Find all factors of a number and/or the greatest common factor (GCF) of a set of numbers.</li> </ul>
1, 2, 6, 8, 9, 16, 20		<b>Fractions</b>	<ul style="list-style-type: none"> <li>Write a fraction in simplest form.</li> <li>Write mixed numbers as improper fractions.</li> <li>Perform all operations on fractions, including mixed numbers, and raising to a power (simple exponents) with simplified answers.</li> </ul>
3, 12, 13		<b>Square Roots</b>	<ul style="list-style-type: none"> <li>Simplify square roots containing perfect square numbers.</li> </ul>
3, 4, 5, 8, 14, 23		<b>Order of Operations</b>	<ul style="list-style-type: none"> <li>Simplify using order of operations, including expressions containing absolute value and exponents.</li> </ul>
7, 8, 9, 10, 14, 15, 16, 18, 20, 21, 22, 23		<b>Evaluating Expressions/ Substitution</b>	<ul style="list-style-type: none"> <li>Use substitution. This includes checking a solution to a single variable equation.</li> </ul>
6, 7, 8, 9, 10, 15, 16, 18, 19, 20, 22		<b>Solving Equations</b>	<ul style="list-style-type: none"> <li>Solve one- and two-step equations containing variables and integer coefficients.</li> <li>Solve one- and two-step equations containing variables and fractions (coefficients and/or constant terms).</li> </ul>
6		<b>Proportions</b>	<ul style="list-style-type: none"> <li>Use proportions to solve problems.</li> </ul>
7, 10, 17, 18		<b>Math Vocabulary</b>	<ul style="list-style-type: none"> <li>Use vocabulary such as sum, difference, quotient, product, etc. to determine operations.</li> </ul>
6, 10, 18		<b>Writing Equations</b>	<ul style="list-style-type: none"> <li>Write a one-variable equation from a word problem.</li> </ul>
18, 19, 22		<b>Solving with Formulas</b>	<ul style="list-style-type: none"> <li>Reference a formula sheet to find an unknown formula.</li> <li>Apply the following formulas for area: triangle, square, rectangle, trapezoid, and circle.</li> <li>Apply the following formulas for perimeter: triangle, square, rectangle, trapezoid, and circle.</li> <li>Apply the following formulas for volume: prism, cone, pyramid, sphere, and cylinder.</li> <li>Label a solution with the correct units.</li> </ul>
21		<b>Inequalities</b>	<ul style="list-style-type: none"> <li>Solve one- and two-step inequalities, including inequalities with fractional coefficients.</li> <li>Graph single variable inequalities on a number line.</li> </ul>
11, 19		<b>Coordinate Plane</b>	<ul style="list-style-type: none"> <li>Name each quadrant and axis of the coordinate plane.</li> <li>Plot ordered pairs, <math>(x, y)</math>, in any quadrant of the coordinate plane.</li> <li>Determine the horizontal or vertical distance between ordered pairs (points) on the coordinate plane.</li> </ul>
23, 24		<b>Table of Values</b>	<ul style="list-style-type: none"> <li>Complete a table by solving for the missing values.</li> </ul>