

Correlation: Standards & Benchmarks - Mathematics
Grade 9
West Des Moines Community School District

STANDARD/BENCHMARK	Basic	Alg - A	Alg - B	Geom.
Students will use mathematics to solve problems, communicate, and work with others.	1	1	1	1
11.1.a Write algebraic expressions.	2	1	1	1
11.1.b Evaluate algebraic expressions.	1	1	1	1
11.1.c Solve for the given variable.	1	1	1	1
Students will use measurement skills.	1	1	1	1
11.2.d Use a formula to determine the area of a plane figure.	1	1	1	1
11.2.e Use a formula to determine the volume of a solid figure.	1		2	1
11.2.f Use a formula to determine the lateral area and total surface area of a figure.	2		2	1
Students will use reasoning skills, mental mathematics, and estimated skills.	1	1	1	1
11.3.g Use deductive reasoning to make a valid conclusion.		1	1	1
11.3.h Use divisibility rules and the ability to multiply and divide by powers of 10.	1	1	1	1
11.3.i Use rounding and estimation.	1	1	1	1
Students will perform mathematical operations and see relationships among numbers.	1	1	1	1
11.4.j Solve linear equations and inequalities	2	1	1	1
11.4.k Solve proportions.	1	1	1	1
11.4.l Simplify rational expressions.		1	1	1
11.4.m Simplify problems using order of operations.	1	1	1	1
Students will demonstrate a development of spatial sense.	2	2	2	1
11.5.n Identify plane geometric figures by name.	1		2	1
11.5.o Classify triangles by sides or angles.	1	2	2	1
11.5.p Identify and compute the angle relationships of parallel lines.	2			1
Students will collect and analyze data.	2	2	2	2
11.6.q Collect and apply information from a graph.				1
11.6.r Calculate the mean, median, and range.	2			2
11.6.s Analyze bar graphs.	2	1	1	
Students will use patterns and relationships to solve problems.	2	1	1	1
11.7.t Use the Pythagorean relationship to solve problems.	2	1	1	1
11.7.u Use a proportion to solve a problem.	1	1	1	1
11.7.v Select and use a formula to find area, surface area, and volume.	2		2	1
11.7.w Understand functional notation.		1	1	1
1 = solid linkage 2 = some linkage blank = no linkage				