

Algebra 1 Power Standards

(Revised May 2013)

Power Standard	Missouri CLE Codes	Common Core Codes
1. Compare and contrast various forms of <u>representations</u> of patterns and generalize patterns using <u>explicitly</u> or <u>recursively</u> defined functions	Now tested in other Power Standards	*Black printing within cell denotes CCSS repeated within a power standard.
2. Compare, order, and apply operations to real numbers using algebraic manipulations, including order of operations to simplify expressions	N.1.A – DOK 1 A.2.B – DOK 2 No Missouri CLE	No CCSS standard for Alg. 1 A.SSE.2; A.SSE.1.a N.RN.3 (working towards)
3. Use and solve equivalent forms of linear equations and represent linear relationships with symbolic algebra.	N.3.E – DOK 2 A.2.A – DOK 3 A.2.C – DOK 2 M.2.D – DOK 2 M.2.E – DOK 2	No CCSS standard for Alg. 1 A.REI.3; A.SSE.1.b; A.CED.1; A.REI.1 N.Q.1* N.Q.1; N.Q.3
4A. Analyze and graph linear functions by investigating rates of change, intercepts and zeros.	N.2.B – DOK 2 A.1.B – DOK 2 A.1.C – DOK 3 A.4.A – DOK 3	No CCSS standard for Alg. 1 F.IF.3; F.BF.1.a; F.BF.1b; F.IF.2; F.BF.2 A.REI.10; F.IF.1; F.IF.4; F.LE.2; F.LE.3 A.REI.11; F.IF.4; F.IF.6; F.IF.7.a; F.IF.7.b; F.LE.1.b; F.LE.5; F.LE.1.a
4B. Analyze and graph absolute value, step, and piecewise defined.	A.1.C – DOK 3	F.IF.7a; F.IF.9
5. Analyze and write linear functions by investigating rates of change, intercepts, and zeros including the line of best fit.	A.4.A – DOK 3 A.1.C – DOK 3 A.1.B – DOK 2 D.1.C – DOK 2 D.2.C – DOK 2 D.3.A – DOK 3 M.2.D – DOK 2 M.2.E – DOK 2	A.REI.11; F.IF.4; F.IF.6; F.IF.7.a; F.IF.7.b; F.LE.1.b; F.LE.5; F.LE.1.a F.IF.1; F.BF.2; F.IF.4; F.LE.2 F.IF.3; F.IF.2; F.BF.1.a; F.BF.2; F.LE.2; SID.6.a S.ID.6.c S.ID.6.a; S.ID.6.c S.ID.6.b; S.ID.7 N.Q.1 N.Q.1
6A. Use and solve equivalent forms of linear inequalities, and represent linear relationships with symbolic algebra.	A.2.A – DOK 3 A.2.C – DOK 2 A.1.C – DOK 3	A.REI.3; A.CED.1; A.REI.1 A.REI.12

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6B. Use and solve equivalent forms of absolute value equations and inequalities and represent with symbolic algebra.	A.2.C – DOK 2	A.REI.1
7. Use and solve systems of linear equations and inequalities in two variables.	A.2.D – DOK 2	A.REI.5; A.CED.3; A.REI.6; A.REI.11; A.REI.12 A.REI.7 (work towards)
8. Use and manipulate expressions using exponents, graph exponential functions and make comparisons and generalizations with non-linear functions.	N.1.C - DOK 2 N.2.C – DOK 2 A.1.B – DOK 2 A.1.C – DOK 3 A.1.D - DOK 2 A.1.E – DOK 2	N.Q.2 No CCSS standard for Alg. 1 F.IF.3; F.BF.1.b; F.BF.1.a; F.IF.2, F.BF.2; F.LE.2; S.ID.6.a A.REI.10; F.IF.1; F.IF.4; F.FIF.8b; F.IF.9; F.BF.2; F.LE.2; F.LE.3 F.IF.4; F.IF.9 F.IF.4; F.BF.1.b; F.BF.3; F.LE.1.c
9A. Describe and use algebraic manipulations including rules of integer exponents to simplify polynomial expressions.	A.2.B – DOK 2	N.RN.1; A.SSE.2; A.SSE.1.a; A.SSE.3.a
9B. Describe and use algebraic manipulations including factoring and rules of integer exponents to simplify polynomial expressions.	A.2.B – DOK 2	A.SSE.3.b; A.REI.4.a; A.REI.4.b; F.IF.8.a
10. Graph and solve quadratic equations using various methods.	A.2.C – DOK 2 A.3.A – DOK 2	F.IF.8.a; A.REI.4.a; A.REI.4.b A.CED.2; F.IF.5; F.IF.7.a; S.ID.6.a
11. Use and apply the pythagorean theorem, distance formula, and simple properties of radicals* correctly.	A.3.A – DOK 2 A.2.B – DOK 2 G.4.B – DOK 3	F.IF.7b N.RN.2 F.IF.7.b; F.BF.3
12. Describe and use algebraic manipulations including factoring and rules of integer exponents to simplify rational expressions.	A.2.B – DOK 2 A.2.C – DOK 2 A.3.A – DOK 2	A.SSE.2 F.IF.8.a; A.REI.1; A.REI.4.b F.IF.5

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13. Create and interpret histograms, scatterplots, stem and leaf plots, and calculate and interpret measures of central tendency.	D.1.C. – DOK 2 D.2.A – DOK 2 D.1.A – DOK 2	N.Q.1; S.ID.1; S.ID.2; S.ID.3 S.ID.5; S.ID.2 No CCSS for Alg. 1
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**CLEs/CCSS not currently in our power standards	Missouri CLE Codes	Common Core Codes
	N.1.B N.2.D N.3.D	Throughout almost all power standards so not coded in any particular CLE.