

# NSCSC Middle School Algebra I Benchmark Checklist

\*Note: These Benchmarks are expectations for this course.

Key to reading Benchmark Checklist

- Open Dot (o) with score – denotes skill(s) met
- Solid Dot (•) – denotes skill(s) not met
- Checkmark through dot (◐) – denotes skill remediated and met

Students are able to:

Percent of Benchmarks Mastered: \_\_\_\_\_

Number		Description	Standard	Mastery	Student Score			
					1 <sup>st</sup> Try	2 <sup>nd</sup> Try	3 <sup>rd</sup> Try	4 <sup>th</sup> Try
o	42	Simplify numerical expressions. (Alg – Chap. 1, Sec. 2)	8.1.5 8.3.4	75%				
o	43	Add, subtract, multiply, and divide positive and negative fractions. (Alg – Chap. 2, Sec. 2,3,4)	8.2.1	75%				
o	44	Solve equations with more than one operation, having variables on both sides. (Alg – Chap. 3, Sec. 4, 5)	A1.2.1	75%				
o	45	Use an algebraic equation to solve word problems involving consecutive integers and perimeter. (Alg – Chap. 3, Sec. 4)	A1.2.6	75%				
o	46	Solve proportions. (Alg – Chap. 3, Sec. 6 #29,30)	A1.7.2	75%				
o	50	Write linear equations for given information. (Alg – Chap. 5, Sec. 4)	A1.4.3	75%				
o	51	Graph linear equations. (Alg – Chap. 4, Sec. 5 and Chap. 5, Sec. 2,3)	A1.4.1	75%				
o	61	Solve inequalities with one variable and graph on a number line. (Alg – Chap. 6, Sec. 1,2,3)	A1.2.3, A1.2.4	75%				
o	62	Solve systems of two equations in two variables. (Alg – Chap. 7, Sec. 2,3,4)	A1.5.1, A1.5.2, A1.5.4, A1.5.5	75%				
o	63	Use a system of equations to solve word problems. (Alg – Chap. 7, Sec. 2,3,4)	A1.5.6	75%				
o	64	Simplify polynomial expressions. (Alg – Chap. 8, Sec. 5,6,7)	A1.6.1-A1.6.5	75%				
o	65	Factor polynomial expressions. (Alg – Chap. 9, Sec. 2,3,4,5,6)	A.1.6.6, A.1.6.7	75%				
o	66	Use factoring to solve quadratic equations. (Alg – Chap. 9, Sec. 2,3,4,5,6)	A1.8.2	75%				
o	67	Use quadratic equations to solve word problems. (Alg – Chap. 9, Sec. 2,3,4,5,6)	A1.8.7	75%				
o	68	Simplify rational expressions. (Alg – Chap. 12, Sec. 2,3,4,6,7, )	A1.7.1	75%				
o	69	Solve rational equations. (Alg – Chap. 12, Sec. 9)	A1.7.2	75%				
o	70	Simplify radical expressions. (Alg – Chap. 11, Sec. 1,2)	A1.1.1, A1.1.2	75%				
o	71	Solve radical equations. (Alg – Chap. 11, Sec. 3)	A1.1.8	75%				
o	72	Solve quadratic equations having real roots. (Alg – Chap. 10, Sec. 3,4)	A1.8.3, A1.8.4, A1.8.6	75%				