

NSCSC Advanced Seventh Grade Mathematics Benchmark Checklist

*Note: These Benchmarks are expectations for this course.

Student Name: _____

Key to reading Benchmark Checklist

Teacher: _____

- 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 st Try	2 nd Try	3 rd Try	4 th Try
o 2	Solve problems involving scientific notation. (Course 3 – Chap. 2 Sec. 9)	7.1.1	75%				
o 3	Number sense and computation with rational numbers. (Handout)	7.1.2, 7.1.7, 7.2.1, 7.2.4, 7.2.5	75%				
o 6	Find the prime factorization of a number in exponential form. (Course 3 – Page 609)	7.1.5	75%				
o 7	Add, subtract, multiply, and divide integers. (Course 3 – Chap. 1, Sec. 4,5,6)	8.2.1	75%				
o 8	Add and subtract fractions. (Course 3 – Chap. 2 Sec. 5,6)	7.2.1	75%				
o 9	Multiply and divide fractions. (Course 3 – Chap. 2, Sec. 3,4)	7.2.1, 7.2.4	75%				
o 10	Solve problems with ratio and proportion. (Course 3 – Chap. 4 Sec. 1, 3, 4, 6)	7.5.3	75%				
o 16	Compute percentage increase and decrease. (Course 3 – Chap. 5, Sec. 7)	7.2.2	75%				
o 18	Use graphs to identify and interpret transformations. (Course 3 – Chap. 6, Sec. 6,7,8,9)	7.4.1, 7.4.2	75%				
o 19	Find and apply slope. (Course 3 – Chap. 4 Sec. 2, 3; Chap. 11 Sec. 4)	7.3.6, 7.3.7, 7.3.8	75%				
o 21	Order of operations involving algebraic expressions. (Course 3 – Chap. 1 Sec. 2)	8.3.4	75%				
o 22	Write a phrase or sentence as an algebraic expression, equation, or inequality. (Course 3 – Chap. 1, Sec. 7)	8.3.1	75%				
o 23	Solve equations and inequalities with integers. (Course 3 – Chap. 1, Sec. 8,9)	8.3.1	75%				
o 25	Make and interpret various types of statistical graphs and compute quartiles. (Course 3 – Chap. 9, Sec. 4,5,6)	8.6.4	75%				
o 28	Solve word problems using proportions. (Course 3 – Chap. 4, Sec. 4)	8.5.3	75%				
o 29	Compute simple interest, discounts, and sales tax. (Course 3 – Chap. 5 Sec. 7, 8)	8.2.2 7.2.3	75%				
o 31	Compute and solve problems involving Pythagorean Theorem. (Course 3 – Chap. 3 Sec. 4,5)	8.4.5	75%				
o 32	Solve problems involving area, surface area, and volume. (Course 3 – Chap. 7, Sec. 1,2,3,4,5,6,7,8)	8.5.4	75%				
o 33	Understand the concepts of probability. (Course 3 – Chap. 8, Sec. 1,2,3,4,5)	8.6.6, 8.6.7	75%				
o 34	Graph linear functions. (Course 3 – Chap. 11, Sec. 3)	8.3.5	75%				
o 35	Solve systems of equations by graphing. (Course 3 – Chap. 11, Sec. 7)	8.3.2	75%				

