BIRMINGHAM CITY SCHOOLS
DEPARTMENT OF CURRICULUM, INSTRUCTION AND ASSESSMENT
MIDDLE SCHOOL PACING GUIDE **Pre-AP MATHEMATICS GRADE 7**
FALL SEMESTER 2016-2017

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
6 [7-NS3] [7-NS1] [7-NS3] **4, 6, 9** [7-NS1] [7-NS1a] [7-NS1b] [7-NS1c] [7-NS1d] [7-NS3] [7-EE3]	**Course 2 Mathematics** **Chapter 3:** Integers **Get to Know Your Students Activity** **Essential Question:** WHAT happens when you add, subtract, multiply, and divide integers? **Are You Ready?** (p. 190) **Lesson 1:** Integers & Absolute Values (pp. 191-198) **Inquiry Lab** Adding Integers (p. 199) **Lesson 2:** Adding Integers (pp. 203-210) **Inquiry Lab** Subtracting Integers (p. 211) **Website:** https:/www.engageny.org *engageNY Module 2 Integers Grade 7*	Week 1 Aug 8-12	**First Semester Begins** **(First Day for Students)** **Rules and Procedures** Discuss: course description, expectations *(classroom norms and grading),* materials and supplies *(pencils, loose-leaf paper, graph paper, folders, etc.),* and notebook organization **Universal Screener (Renaissance Learning) District Screener 1- August 8 -24, 2016** • I can read and write integers, and find the absolute value of an integer. • I can model addition of integers. • I can add integers. • I can model subtraction of integers. • **Vocabulary: Lesson 1-** Integer, negative integer, positive integer, graph, absolute value, zero pair • **Vocabulary: Lesson 2-**Opposites, additive inverse		

July 2016

ACOS/CCRS Standard	Resource Materials **Websites Lesson/Activities**	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
4, 6 [7-NS1] [7-NS1c] [7-NS1d] [7-NS3] [7-EE3]	**Course 2 Mathematics** **Chapter 3:** Integers **Lesson 3:** Subtracting Integers (pp. 215-222) **Inquiry Lab** Distance on Number Line (p. 223) **Problem –Solving Investigation** Look for a Pattern (p. 225) **Assessment:** **Mid-Chapter Check** (p. 228) **Course 2 Mathematics** **Chapter 4:** Rational Numbers **Essential Question:** WHAT happens when you add, subtract, multiply, and divide fractions? **Are You Ready?** (p. 260)	Week 1 (Continue) Aug 8-12	• I can subtract integers. • I can find the distance between two rational numbers on a number line.		
4 [7-NS1]	**Inquiry Lab** Rational Numbers on the Number Line (p. 261) *engageNY Module 2 Integers Grade 7*		• I can graph rational numbers on the number line.		

July 2016

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
	Course 2 Mathematics **Chapter 4:** Rational Numbers	Week 2 Aug 15-19			
5, 9 [7-NS2] [7-NS2d] [7-EE3]	**Lesson 1:** Terminating and Repeating Decimals (pp. 263-270)		• I can write fractions as terminating or repeating decimals and write decimals as fractions.		
5, 9 [7-NS2] [7-NS2b] [7-EE3]	**Lesson 2:** Compare & Order Rational Numbers (pp. 271-278)		• I can compare and order rational numbers.		
4, 6 [7-NS1] [7-NS1b] [7-NS3]	**Inquiry Lab** Add & Subtract on the number line (p. 279)		• I can add and subtract like fractions on a number line.		
	Lesson 3: Add and Subtract Like Fractions (pp. 283-290)		• I can add and subtract fractions with like denominators.		
4, 6, 9 [7-NS1] [7-NS1c] [7-NS1d] [7-NS3] [7-EE3	*engageNY Module 2 Integers-Grade 7*		• **Vocabulary: Lesson 1-**Repeating decimal, bar notation, terminating decimal • **Vocabulary: Lesson 2-**Rational number, common denominator, least common denominator • **Vocabulary: Lesson 3-**Like fractions		

July 2016

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
4, 6, 9 [7-NS1] [7-NS1d] [7-NS3] [7-EE3]	**Course 2 Mathematics** **Chapter 4:** Rational Numbers **Lesson 4:** Add and Subtract Unlike Fractions (pp. 291-298) **Lesson 5:** Add and Subtract Mixed Numbers (pp. 299-306) **Problem-Solving Investigation** Draw a Diagram (p. 307) **Assessment:** **Mid-Chapter Check** (p. 310)	Week 2 (Continue) Aug 15-19	• I can add and subtract fractions with unlike denominators. • I can add and subtract fractions with mixed numbers. • I can solve problems by drawing a diagram. • **Vocabulary: Lesson 3**-Like fractions • **Vocabulary: Lesson 4**-Unlike fractions		
9, 10 [7-EE3] [7-EE4] **1** [8-NS1] **2, 4** [8-NS2] [8-EE2] **9, 10** [7-EE3], [7-EE4] **1, 2, 4** [8-NS1] [8-NS2] [8-EE2]	**Course 3 Mathematics** **Chapter 1:** Real Numbers **Essential Question:** WHY is it helpful to write numbers in different ways? **Lesson 1:** Rational Numbers (pp. 7-14) **Lesson 9:** Estimate Roots (pp. 81-88) **Lesson 10:** Compare Real Numbers (pp. 89-96) **Website:** https:/www.engageny.org *engageNY Module 7-Grade 8* Lessons 6-10 *engageNY Module 3-Grade 7* Lessons 1-15	Week 3 Aug 22-26	• I can write rational numbers as decimals and decimals as fractions. • I can use roots to estimate solutions. • I can compare mathematical expressions. • **Vocabulary: Lesson 1**-Rational number, repeating decimal, terminating decimal • **Vocabulary: Lesson 10**-Irrational number, real number		

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
3 [8-EE1]	**Course 3 Mathematics** **Chapter 1:** Real Numbers **Lesson 2:** Powers and Exponents (pp. 15-22) **Lesson 3:** Multiply and Divide Monomials (pp. 23-30) **Website:** https:/www.engageny.org *engageNY Module 7-Grade 8* Lessons 1-5 **AMSTI:** Growing, Growing, Growing	Week 3 (Continue) Aug 22-26	• I can use powers and exponents to write large and small numbers. • I can simplify real number expressions by multiplying and dividing monomials. • **Vocabulary: Lesson 2:**-Power, base, exponent • **Vocabulary: Lesson 3**-Monomial		
3 [8-EE1]	**Course 3 Mathematics** **Chapter 1:** Real Numbers **Lesson 4:** Powers of Monomials (pp. 31-38) **Mid-Chapter Check** (p. 42) **Lesson 5:** Negative Exponents (pp. 43-50)	Week 4 Aug 29 - Sept 2	• I can use the laws of exponents to find powers of monomials. • I can write and evaluate expressions using negative exponents.		

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
6 [8-EE4] **4** [8-EE2]	**Course 3 Mathematics** **Chapter 1:** Real Numbers **Lesson 6:** Scientific Notation (pp. 51-58) **Lesson 8:** Roots (pp. 71-78) **Website:** https:/www.engageny.org *engageNY Module 7-Grade 8* Lessons 1-5	Week 5 Sept 5-9	**Labor Day-Monday, September 5th** • I can use scientific notation to write large and small numbers. • I can find square roots and cube roots. • **Vocabulary: Lesson 6-**Scientific notation • **Vocabulary: Lesson 8-**Square root, perfect square, radical sign, cube root, perfect cube **Progress Reports Go Home Wednesday, September 7th**		
10 [7-EE4] **5, 6** [8-EE3] [8-EE4]	**Course 3 Mathematics** **Chapter 1:** Real Numbers **Lesson 7:** Compute with Scientific Notation (pp. 59-66) **Inquiry Lab** Graphing Technology: Scientific Notation Using Technology (p. 67) **Chapter Review** (p. 99) **Assessment:** Chapter 1 Test www.connectED.mcgraw-hill.com **Website:** https:/www.engageny.org *engageNY Module 4-Grade 8* Lessons 1-8	Week 6 Sept 12-16	• I can compute with numbers written in scientific notation. • I can interpret scientific notation when using technology.		

ACOS/CCRS Standard	Resource Materials **Websites Lesson/Activities**	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
9 [8-EE7] [8-EE7a] [8-EE7b	**Course 3 Mathematics** **Chapter 2:** Equations in One Variable **Essential Question:** WHAT is equivalence? **Lesson 1:** Solve Equations with Rational Coefficients (pp. 111-118) **Inquiry Lab** Solve Two-Step Equations (p. 119) **Lesson 2:** Solve Two-Step Equations (pp. 121-128) **Website:** https:/www.engageny.org *engageNY Module 4-Grade 8* Lessons 1-8 **AMSTI:** Say It With Symbols	Week 6 (Continue) Sept 12-16	 • I can solve equations with rational coefficients. • I can use a bar diagram to write and solve two-step equations. • I can solve two-step equations. • **Vocabulary: Lesson 1**-Multiplicative inverse, coefficient • **Vocabulary: Lesson 2**-Properties, two-step equation		

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
9 [8-EE7]	**Course 3 Mathematics** **Chapter 2:** Equations in One Variable **Lesson 3:** Write Two-Step Equations (pp. 129-136) **Website:** https:/www.engageny.org *engageNY Module 4-Grade 8* Lessons 1-8 **Problem-Solving Investigation** Work Backward (p. 137) **Assessment:** **Mid-Chapter Check** (p. 140)	Week 7 Sept 19-23	• I can write two-step equations that represent real-world situations. • I can solve problems by working backward. **Friday, September 23rd** **No Students** **(District Professional Development)**		

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
9 [8-EE7] [8-EE7a] [8-EE7b]	**Course 3 Mathematics** **Chapter 2:** Equations in One Variable **Lesson 4:** Solve Equations with Variables on Each Side (pp. 145-152) **Lesson 5:** Solve Multi-Step Equations (pp. 153-160) **21st Century Career in Design (**p. 161) **Chapter Review** (p. 163) **Assessment:** Chapter 2 Test www.connectED.mcgraw-hill.com	Week 8 Sept 26-30	 • I can solve equations with variables on each side. • I can solve multi-step equations. • **Vocabulary: Lesson 5-**Null set, identity		

July 2016

ACOS/CCRS Standard	Resource Materials Websites Lesson/Activities	Week	Student Outcome/Vocabulary First Nine Weeks (August 8 – October 4, 2016)	Date(s) Taught	Date(s) Tested
	Review for Exam **Course 2 Mathematics** **Chapter 3:** Integers **Course 2 Mathematics** **Chapter 4:** Rational Numbers **Course 3 Mathematics** **Chapter 1:** Real Numbers **Course 3 Mathematics** **Chapter 2:** Equations in One Variable	Week 9 Oct 3-7	**ACT Aspire Periodic Assessments** **Test I- October 3 -14, 2016** **End of First Nine Weeks (10/4/16)** **Teacher-Made Assessment**		

July 2016