Hattiesburg Public School District
Grade 3 Mathematics Units
2015 – 2016

Unit 5: Representing and Comparing Fractions	Time Frame: 4 Weeks (January 5 – 29, 2016)
Content Standards	**Standards for Mathematical Practice**
Major Standards	(1) Make sense of problems and persevere in solving them. (2) Reason abstractly and quantitatively. (3) Construct viable arguments and critique the reasoning of others. (4) Model with mathematics. (5) Use appropriate tools strategically. (6) Attend to precision. (7) Look for and make use of structure. (8) Look for and express regularity in repeated reasoning.
NF.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b. **NF.2** Understand a fraction as a number on the number line; represent fractions on a number line diagram. a. Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line. b. Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line. **NF.3** Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. a. Understand two fractions as equivalent (equal) if they are the same size or the same point on a number line. b. Recognize and generate simple equivalent fractions, e.g., 1/2 = 2/4, 4/6 = 2/3). Explain why the fractions are equivalent, e.g., by using a visual fraction model. c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. **OA.5.** Apply properties of operations as strategies to multiply and divide. (Students need not use formal terms for these properties.)	
Supporting Standards	
NF.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a	

parts of size1/b.

NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram.

NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.

Additional Standards

NBT.2. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division

Pre-requisite Standards

1.G.3 Partitioning traditional shapes into equal parts.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Equivalent Fractions NF.1 Name the Fraction Exploring Fraction Kits Picture Pie Find Half	Fractions on A Number Line NF.2 Fraction Strips Fraction Number Lines Number Line Roll	Equivalent Fractions NF.3 Part A Pizza for Dinner Exploring Equivalent Fractions	Equivalent Fractions NF.3 Part B Cuisenaire Equivalent Fractions Make One	Applying Properties of Multiplication OA.5 Properties Game Decompose a Factor Part 1 Decompose a Factor Part 2

Fraction Posters	Make Your Own Fraction Strips		Compare and Order	
Unit Resources				**Performance Task**
Unit Resources/Vocabulary				Fraction Posters Turn Your Array