Learning Progression for Fractions

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| **Grades K-3** | **Grades 4-5** | **Grades 6-8** |
| **Kindergarten****K.G.6 –** Compose simple shapes to form larger shapes**Grade 1****1.G.3** – Partition circles and rectangles into two and four equal shares; describe the shares using the words halves, fourths, and quarters**Grade 2****2.G.3** – Partition circles and rectangles into two, three, or four equal shares; describe the shares using the words halves, thirds, fourths**Grade 3****3.NF.1** – Develop understanding of fractions as numbers**3.NF.2** – Understand a fraction as a number on the number line**3.NF.3** – Explain equivalence of fractions in special cases and compare fractions by reasoning about their size | **Grade 4****4.NF.1, 2 –** Extend understanding of fraction equivalence and ordering**4.NF.3a** – Understand addition and subtraction of fractions as joining and separating parts referring to the same whole**4.NF.3c** – Add and subtract mixed numbers with like denominators**4.NF.4** – Apply and extend previous understandings of multiplication to multiply a fraction by a whole number**4.NF.5, 6, 7** – Understand decimal notation for fractions and compare decimal fraction**Grade 5****5.NF.1** – Use equivalent fractions as a strategy to add and subtract fractions**5.NF.2** – Use benchmark fractions for number sense of fractions to estimate mentally and assess reasonableness of answers**5.NF.4** – Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction**5.NF.7** – Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions | **Grade 6****6.NS.1** – Apply and extend previous understandings of multiplication and division to divide fractions by fractions**Grade 7****7.NS.1** – Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers**Grade 8****8.EE.7b** – Solve linear equations with rational number coefficients |

Christinson, J., Wiggs, M.D., Lassiter, C.J., & Cook, L. (2012). *Navigating the mathematics Common Core State Standards*. Englewood, CO: Leadership and Learning Center.