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.