Learning Progression for Multiplication and Division

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| **Grade 2** | **Grades 3-4** | **Grades 5-7** |
| **Grade 2****2.OA.3,4** – Work with equal groups of objects to gain foundations for multiplication**2.OA.3** – Determine whether a group of objects has an odd or even number of members**2.OA.4** – Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns | **Grade 3****3.OA.1** – Interpret products of whole numbers**3.OA.2** – Interpret whole-number quotients of whole numbers**3.OA.3** – Use multiplication and division within 100 to solve word problems**3.OA.5** – Apply properties of operations as strategies to multiply and divide**3.OA.6** – Understand division as an unknown-factor problem**3.OA.7** – Fluently multiply and divide within 100**3.NBT.3** – Multiply one-digit whole numbers by multiples of 10 in the range of 10-90 using strategies based on place value and properties of operations**Grade 4****4.OA.1** – Interpret a multiplication equation as a comparison**4.OA.4** – Gain familiarity with factors and multiples**4.NBT.5** – Multiply a whole number of up to four digits by a one-digit number and multiply two two-digit numbers using strategies based on place value and properties of operations**4.NBT.6** – Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors using strategies based on place value and properties of operations | **Grade 5****5.NBT.5** – Fluently multiply multi-digit whole numbers using the standard algorithm**5.NBT.6** – Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors**5.NBT.7** – Add, subtract, multiply decimals to hundredths using models, drawings, place value and the properties of operations**Grade 6****6.NS.2** – Fluently divide multi-digit numbers using the standard algorithm**6.NS.3** – Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation**6.NS.4** – Find common factors and multiples**Grade 7****7.NS.2** – Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers |

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