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| **Unit Name:**  **Patterns** |
| **Common Core State Standards:**  **3.OA.9** - Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. *For example, observe that 4 times a number is always*  *even, and explain* *why 4 times a number can be decomposed into two equal addends.* |
| **Essential Vocabulary:**   * Square Numbers * Products * Factors * Repeating Pattern * Growing Pattern |
| **Unit Overview:**  In this unit the students will learn about square numbers and find examples and non-examples of square numbers. A square number is the product of a number and itself. For example 16 is a square number because 4 x 4 = 16. The students will work with numeric and geometric patterns. The students will extend and describe both types of patterns. Students will use tables to help them describe and extend patterns. |
| **Strategies/Skills:**   * Tables |
| **Video Support:**  LearnZillion Lesson – Identifying Patterns on a Multiplication Chart   * <https://learnzillion.com/lessons/1529-identify-patterns-on-a-multiplication-chart> |
| **Additional Resources:**  If you have limited/no internet access, please contact your child’s teacher for hard copies of the resources listed in this document.   * NCDPI Unpacking Document: [3rd Grade Unpacking Document](http://maccss.ncdpi.wikispaces.net/file/view/Unpacking%203%20July%202013.pdf/443030266/Unpacking%203%20July%202013.pdf) |