| Diocese of Wheeling-Charleston |  |  |  |
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| Math Unit Planner |  |  |  |
| Name of Teacher: Mrs. Morgan Allman |  |  | Grade Level: 3rd |
| Domain: Mathematics |  |  |  |
| Estimated Duration of Unit: 15 days (3) weeks |  |  |  |
| Specific Clusters Addressed: Division and multplication |  |  |  |
| Teaching Strategies: Direct instruction, whole class, individual |  |  |  |
| Catholic Identity Connections: Cross Curricular Opportunities Stories of the Bible connecting with multiplication; technology |  |  |  |
| Assessment (authentic/published - summative/formative): Summative-Algebra Chapter 6 and 7 in math book, quizzes daily; Formative-Ipad multiplication games, workbook, in-class games |  |  |  |
| Standards Addressed |  |  |  |
| Standard Number | Stand |  |  |
| M.3.OA. 1 | Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each. For example, describe context in which a total number of objects can be expressed as $5 \times 7$. |  |  |
| M.3.OA. 5 | Apply properties of operations as strategies to multiply and divide. (Students need not use formal terms for these properties.) Examples: If $6 \times 4=24$ is known, then $4 \times 6=24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5=15$, then $15 \times 2=30$, or by $5 \times 2=10$, then $3 \times 10=30$. |  |  |
| M.3.OA. 6 | Understand division as an unknown-factor problem. For example, find $32 \div 8$ by finding the number that makes 32 when multiplied by 8 . |  |  |
| M.3.OA. 7 | fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5=40$, one knows $40 \div 5=8$ ) or properties of operations and by the end of Grade 3 , know from memory all products of two one-digit numbers |  |  |


| Description of Activity |  |  |  | Date of Completion |
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| Each day the students will work on multiplying a number with the numbers 1-12. (3X2) |  |  |  | Day 1-12 |
| Students will play the math game around the world learning the understanding of multiplication. |  |  |  | Day 4,8,9,12 |
| Students will think through and write down multiplication problems using communitive property. |  |  |  | Day 5, 6, 7 |
| Students will take a 10 problem quiz each day after the $1^{\text {st }}$ day to help them understand and memorize multiplication factors 1-12 |  |  |  |  |
| Students will come to the board and write the multiplication out in order to $t$ see that the answers to the problem come in order by just adding. (e.i $2 \times 2=42 \times 3=6$ ) just add 2 more to the previous answer |  |  |  | Day 8 |
| Students will work the reversing multipication by working backwards on problems to learn division |  |  |  | Day 10,11,13 |
| Differentiated Instruction Opportunities/Overview: We will be using the Ipad to reinforce multiplication using games. (Multiplication for kids, Third grade splash math games for third grade, Math factor monsters, Lumio Farm Factor free, squeezable multiplication.); We will be playing s game with two dice- the students will roll each dye, then the students will multiply those to dice together to practice multiplication. The students will play a game called Division Dragon on the IPad for extra practice. |  |  |  |  |
| Cross Curricular Opportunities: |  |  |  |  |
| $\begin{aligned} & \text { Standard } \\ & \text { Number } \end{aligned}$ | Standard Description |  | Resources | Date |
| $\begin{array}{\|l\|} \hline 21 \mathrm{C} .0 .3-4 . \\ \text { 3.TT6 } \end{array}$ |  | Student selects appropriat technology tools <br> and resources needed to communicate <br> informato to otrens <br> goals, and to so support tindepenendentent learnal | IPad | $\begin{array}{\|l\|} \hline \text { Day } \\ \text { 5,10,11,14,15 } \end{array}$ |
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|  |  |  |  |  |
| Mathematical Practice Standards - 8 Progressions |  |  |  | Check all the Apply |
| 1 | Make sense of problems and persevere in solving them. |  |  | $\mathbf{x}$ |
| 2 | Reason abstractly and quantitatively. |  |  |  |
| 3 | Construct viable arguments and critique the reasoning of others. |  |  |  |
| 4 | Model with mathematics. |  |  | X |
| 5 | Use appropriate tools strategically. |  |  | X |


| $\mathbf{6}$ | Attend to precision. |  |
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| $\mathbf{7}$ | Look for and make use of structure. | X |
| $\mathbf{8}$ | Look for and express regularity in repeated reasoning |  |

