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| Diocese of Wheeling-Charleston  |
| CASE Math Unit Planner |
| Name of Teacher: Michele Martin | Grade Level: 4th |
| **Domain**: numbers and operations in base ten |
| Estimated Duration of Unit: 3 days |
| Specific **Clusters** Addressed: generalize place value understanding for rounding multi digit whole numbers |
| Teaching Strategies: using number lines, solve and share problems  |
| Catholic Identity Connections: Cross Curricular Opportunities |
| Assessment (authentic/published - summative/formative): group participation and formative online quick check |
| **Standards Addressed** |
| Standard Number | **Standards** |
|  4.NTB.A.3 | Use place value understanding to round multi digit whole numbers to any place |
|  ELA.4.W.C10.1 | Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.  |
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| Description of Activity | Resources  | Date of Completion |
| Begin with Lesson on pg. 23. Share info from number lines. Group practice rounding numbers.  |  Envision math book |  Day 1 |
| Play toss and talk game with partners. Students match numbers with rounded numbers in the ten and hundred thousands.  |  Center games .. envision math book  | Day 1  |
| Pumpkins brought in for each group. Descriptive writing about the pumpkin.  |  https://www.teacherspayteachers.com/Product/Pumpkins-1521779 |  Day 2 |
| Pumpkin seed math, estimate how many seeds in pumpkin. Show guesses in expanded and written forms.Round numbers to nearsest 10’s, 100’s, 1000’s |  https://www.teacherspayteachers.com/Product/Pumpkins-1521779 |  Day 2 |
| Cut open pumpkin. Count seeds in a handful and seeds in entire pumpkin. Compare answers with other groups.Round all numbers again.   |  https://www.teacherspayteachers.com/Product/Pumpkins-1521779 | Day 3 |
|  Add to descriptive writing about inside of the pumpkin. |   |  Day 3 |
| Differentiated Instruction Opportunities/Overview: Reteach place value and rounding digits |
| **Mathematical Practice Standards - 8 Progressions** | **Check all the Apply** |
| **1** | **Make sense of problems and persevere in solving them.** | **x** |
| **2** | **Reason abstractly and quantitatively.** | **x** |
| **3** | **Construct viable arguments and critique the reasoning of others.** | **x** |
| **4** | **Model with mathematics.** | **x** |
| **5** | **Use appropriate tools strategically.** | **x** |
| **6** | **Attend to precision.** | **x** |
| **7** | **Look for and make use of structure.** | **x** |
| **8** | **Look for and express regularity in repeated reasoning** | **x** |
| Summary of unit upon completion |
|  The students were able to tie together the counting and estimating of pumpkin seeds along with rounding each number. Writing a description of what each one thought about the pumpkin and after the pumpkin was cut open.  |
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