

### 3<sup>rd</sup> Grade Math Technology Plan

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| Date:                 | June 16, 2015  |
| Grade/Class/Subject:  | 3 <sup>rd</sup> /Math  |
| Unit Topic or Theme:  | Problem Solving  |
| Content Standards:    | <p>MGSE3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p> <p>MGSE3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</p> <p>MGSE3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, † e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.12 ‡See Glossary: <i>Multiplication and Division Within 100</i>.</p> <p>1C: Use models and simulations to explore complex systems and issues.</p> <p>2B: Communicate information and ideas effectively to multiple audiences using a variety of media and formats.</p> <p>4A: Identify and define authentic problems and significant questions for investigation.</p> <p>5A: Advocate and practice safe, legal, and responsible use of information and technology.</p> <p>5B: Exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.</p> <p>5C: Demonstrate personal responsibility for lifelong learning.</p> <p>5D: Exhibit leadership for digital citizenship.</p> <p>6A: Students will login in independently and be required to use class websites to get class information and assignments.</p> |
| Key Vocabulary:       | math action words related to each operation (sum, difference, product, quotient, etc.)   |
| Technology Materials: | Educreations App, iPads  |
| Strategies:           | critical thinking, problem solving, creative thinking  |
| SAMR Features:        | Augmentation (Students will create and solve their own word problems using an app that allows them to record their steps and explain their thinking.)  |
| Opening Activity:     | Post a word problem on the projector or classroom whiteboard. Students will  |

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|                                      | solve the word problem on their individual whiteboards or desk. Discuss ways students solved the problem. Identify math action words and operations used.  |
| Additional Instructional Activities: | After the opening activity, students will write a word problem using the operation of the teacher's choice on their whiteboards or desk. The teacher will ask probing questions and check for understanding of how to write the problem using the correct vocabulary and operations. |
| Formative Assessment:                | Probing questions and quick check of whiteboard word problems and problem solving process.   |
| Summative Assessment:                | Students' Educreation video will be assessed using a rubric.   |