## Unit Plans

Subject: Mathematics
Teachers: Michele Allen

Grade: Three
Year: 2013-2014

| Timeline | Theme / Topic / Concepts / Structures | Dimensions / Focus / Objectives / Learner Expectations | Resources | Instructional Procedures / Methods | Evaluation Techniques |
| :---: | :---: | :---: | :---: | :---: | :---: |
| September | COLLECTING \& ANALYZING DATA LOCATING/ MAPPING (2 Weeks) <br> PATTERNING (3 Weeks) | Students will: <br> - collect first and second-hand data, displaying the results in more than one way <br> - interpret data to make predictions <br> Students will: <br> - investigate, establish and communicate rules for numerical and non-numerical patterns, including those found in the home <br> - use pattern rules to make predictions <br> - use numbers and direction words to describe the relative positions of objects in one dimension, using everyday contexts <br> Students will: | - Math Makes Sense <br> - Math Focus <br> - Manipulatives <br> - Diagnostic Math Program Division One | - Teacher Modeling and demonstration <br> - Hands-on manipulation <br> - Investigation <br> - Writing <br> - Cooperative work <br> - Student demonstrations/ presentations <br> - Peer teaching <br> - Games | - Unit tests/ quizzes <br> - Notebook assignments <br> - Extended problem solving projects <br> - Student Products and Portfolios <br> - Teacher Observation <br> - Anecdotal records |
| October | NUMBERS to 1000 <br> (5 weeks) | Say the number sequence 0 to 1000 forward and backward by: <br> $-5 \mathrm{~s}, 10 \mathrm{~s}$, or 100 s using any starting point <br> -3 s , using starting points that are multiples of 3 <br> -4 s , using starting points that are multiples of 4 <br> -25 s , using starting points that are multiples of 25 <br> -Represent and describe numbers to 1000 , concretely, pictorially and symbolically <br> -Compare and order numbers to 1000 <br> -Estimate quantities less than 1000 using referents -Illustrate, concretely and pictorially the meaning of place value for numerals to 1000 |  | - Individual work | - Checklists <br> - Self-analysis <br> - Observation records <br> - Conference prompts |
| November | ADDITION / <br> SUBTRACTION <br> (5 Weeks) | Students will: <br> Describe and apply mental mathematics strategies for adding two 2 -digit numerals, such as adding from left | Continued use throughout the year. | Continued use throughout the year. | Continued use throughout the year. |




| June | REVIEW | Students will be prepared to: <br> - use mathematics confidently to solve problems <br> - communicate and reason mathematically <br> - appreciate and value mathematics <br> - commit themselves to lifelong learning <br> - become mathematically literate adults, using mathematics to contribute to society <br> Students will learn to use the following mathematical processes: <br> - communicate mathematically <br> - connect mathematical ideas to everyday experiences and to other subject areas <br> - use estimation and mental mathematics where appropriate <br> - apply new mathematical knowledge to problem solving <br> - reason and justify their thinking <br> - use appropriate technologies to solve problems <br> - use visualization to assist in problem solving, processing information and making connections |  |  |
| :---: | :---: | :---: | :---: | :---: |

