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| **MPM1DI** CYCLE 1: Part A |

*Every day you will be asked to learn and apply the mathematical process in order to work towards achieving the curriculum expectations for this course (outlined on the back of this sheet).*

*The mathematical processes that support effective learning are problem solving, reasoning and proving, reflecting, selecting tools and computational strategies, connecting, representing, and communicating. Accordingly, on a daily basis you should be seeking opportunities to demonstrate the expectations outlined below...*

**Daily Expectations:** Students can...

* use planning and processing skills to solve a variety of mathematical problems (e.g. interpreting the problem, making a plan, thinking critically and creatively when problem solving, modelling, solving, testing a solution, revising, forming conclusions, evaluating reasonableness, justifying, reflecting, etc.);
* demonstrate and apply knowledge of course specific content, and an understanding of its meaning and significance;
* transfer knowledge and skills to new contexts, making connections between various contexts;
* express and organize ideas and mathematical thinking using proper conventions, vocab, and terminology in oral, visual, and written forms.

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|  | **Date** | **Topic** | **Homework Practice** |
| L1 | Tues. Sept. 4 | Course Introduction & 100 Numbers Activity | Student Information Sheet *(Fill in the Google Form)*& Cram.com-Integers |
| L2 | Wed. Sept. 5 | Battleship & Emoji Graph | Punchline Graphing Worksheet |
| L3 | Thurs. Sept. 6 | Paper Folding & R2D2 | Measurement Worksheet |
| L4 | Fri. Sept. 7 | Skyscrapers | Integer Worksheet |
| L5 | Mon. Sept. 10 | Fractions Review | Fractions: Adding & Subtracting Worksheet |
| L6 | Tues. Sept. 11 | Fractions Review | Fractions: All Operations Worksheet |
| L7 | Wed. Sept. 12 | Exponents Introduction | p. 114 #1, 2, 6, 7acf, 8, 14a, 18 |
| L8 | Thurs. Sept. 13 | BEDMAS | pg. 5 #4, 7 (without a calculator)BEDMAS Worksheet |
| L9 | Fri. Sept. 14 | Perimeter, Area & Volume | p. 414 #1bdf, 2ab, 4, 5p. 441 #4a, 7a p. 454 #1a, 9, p. 465 #1a |
| L10 | Mon. Sept. 17 | Collecting Like Terms & Adding/Subtracting Polynomials | p. 151 #2, 5, 7a-d, 11, 12, 15a**Challenge:** p. 151 #15b |
| L11 | Tues. Sept. 18 | Adding/Subtracting Polynomials & Degree/Types | Polynomial Terminology Worksheet |
| L12 | Wed. Sept. 19 | Solving Simple Equations | p. 193 C3 #3, 5, 8-10, 12ac p. 215 #1bd, 2acf**Extra Practice:** Solve Me Mobiles (online) |
| L13 | Thurs. Sept. 20 | Solving Multi-step Equations | p. 200 #1, 2, & Multi-step Worksheet 1aceg, 2aceg & 4abc |
|  | Fri. Sept. 21 | **P.D. DAY** |  |
| L14 | Mon. Sept. 24 | Volume of Prisms & Spheres | p. 441 #6, 9, 10, 13p. 465 # 2, 12 |
|  | Tues. Sept. 25 | **MID-CYCLE ASSESSMENT** |  |

**Curriculum Expectations:**

*By our mid-cycle assessment on* ***Tuesday, September 25th****, you should be able to demonstrate and apply the following curriculum expectations. As we move our way through the cycle, come back to this page frequently to assess where you are at...what have you mastered? ...what are you struggling with? ...do you need to come in for extra help or travel during MSIP?*

*Don’t wait until the day before, be an active and proactive learner.*

1. **Number Sense and Algebra:**

Students can...

* substitute into and evaluate algebraic expressions involving exponents
* simplify numerical expressions involving integers and fractions
* apply “opposite operations” to simplify expressions and solve equations
* add and subtract polynomials
* rearrange formulas involving variables
1. **Measurement & Geometry**

Students can...

* solve problems involving the areas and perimeters of two-dimensional shapes
* solve problems involving the surface areas and volumes of prisms, pyramids, cylinders, cones, and spheres

