**Math Applications**

**Jenkins Alphonse, Teacher**

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| **Course & Grade Level** | 9th Grade |
| **Room #** | 409 |
| **Course Description** | Problem solving is important and good problem-solving skills don’t necessarily come naturally, but can be taught. Students need lots of opportunities to practice problem-solving strategies. Then they need to learn how to choose an appropriate strategy to solve a given problem. This course is designed to give students a firm problem-solving foundation. It also teaches them to think and work together, present solutions orally to the whole class, and write up detailed solutions. In other words, it helps to prepare students for life.  Students learn problem-solving strategies--such as analyzing units, making systematic lists, and evaluating finite differences--and their various substrategies. By the end of the course, students will have learned more than twenty problem-solving strategies and substrategies. For each strategy, students learn real-world examples of its utility. Students engage in problems across multiple contexts in which they may employ the strategy. Many problems reappear throughout the course in order to demonstrate multiple approaches to the same problem. It is important that students learn that there are often many ways of solving a problem. This course emphasizes process more than answer. The journey is more interesting than the destination. Problem solving develops better when students must determine their own direction. |
| **Required Materials** | Pencil, notebook, binder dividers, ruled filler paper, sheet protectors & fine point dry erase markers |
| **Policies & Procedures** | Come to class with all needed materials each day. The primary classroom expectations include:   * Use class time productively. * Do as instructed the first time. * Pay attention. No sidebar conversations when someone else is talking. * One Mic (One voice one sound) * Be respectful to yourself, and others * Participate in all classroom activities * Complete all assignments. |
| **Grading Policy** | **Categories Percent of Grade**  Formative Assessment 30%   * Classwork Assignments * Class Participation * Exit Tickets   Summative Assessment 70%   * Unit Assessments * Group Assignments/Projects * Binder Submission * Bi Weekly Assessments |
| **Attendance & Tardiness Policy** | Attendance and punctuality are necessary for successful completion of this course. In the event that you have an excused absence it is your responsibility to obtain make-up work and/or reschedule any missed assessments. |
| **Classwork & Homework Policies** | * All assignments must be turned in on time. Late assignments will be accepted under the following conditions: a) the assignment is submitted at the beginning of the next class session, immediately following the due date [10 points will be deducted from the earned grade] **AND** b) the assignment has not been reviewed in class or graded/returned by the teacher. * All essays and research papers must be typed in MLA format. * Students are required to rewrite all essays that receive a grade below 70% * You must read the assigned literature selections and actively participate in class (discussion, activities, group work, etc.). * Students will be required to adhere to the following guidelines for handwritten assignments:   + Use blue or black ink **(assignments written in pencil or other colors of ink will not be accepted)**   + Left and right margins must be observed   + Loose-leaf notebook paper must be used   + Written work must be legible and neat |
| **Course Timeline** | |
| **MP #1:**  **Sept. 5 - Nov. 9** | Unit 1A: Draw Diagram  Unit 1B : Make a Systematic List  Unit 1C: Eliminate Possibilities  Unit 1D: Use Matrix Logic |
| **MP#2:**  **Nov. 10 - Jan. 24** | Unit 2A: Look for Pattern  Unit 2B: Guess And Check  Unit 2C: Identify Subproblems  Unit 2D: Analyze the Units |
| **MP #3:**  **Jan 29 - Apr. 12** | Unit 3A: Solve an Easier Related Problem  Unit 3B: Create A Physical Representation  Unit 3C Work Backwards  Unit 3D: Draw Venn Diagram |
| **MP #4:**  **Apr. 13 - June 19** | Unit 4A: Convert to Algebra  Unit 4B: Use the Graph  Unit 4c: Evaluate Finite Difference  Unit 4D. Change Focus |
| **Course Curriculum** | <https://docs.google.com/document/d/1EOqz1-KBs0WL7dwltS_oT46zi3Ptjw3RiG54G0L4-Fw/edit?usp=sharing> |
| **Contact Information** | Email Address: [Jalphonse@nps.k12.nj.us](mailto:Jalphonse@nps.k12.nj.us)  Phone Number : (862) 452-3417  Webex : https://nboe.webex.com/meet/jalphonse |
| **Office Hours** | **“ By Appointment Only “** |
| **Student Signature** |  |
| **Parent Signature** |  |
| **Incentivize** | Students will receive an extra 10 points on their first assessment if this form is signed and returned to class by 9/16 |