



**SAINT GEORGE  
SCHOOL**  
FOUNDED 1965



Porfirio Herrera No. 6, Ensanche Piantini.  
Santo Domingo, D. N. Rep. Dominicana



T. 809 562 5262 F. 809 562 5015  
[www.stgeorge.edu.do](http://www.stgeorge.edu.do)

## **MATHEMATICS, 6<sup>th</sup> Prep**

Teacher: Mrs. Diana Gomez

Email: [digomez@saintgeorge.do](mailto:digomez@saintgeorge.do)

Academic year: 2011-2012

### **1. INTRODUCTION AND DESCRIPTION OF COURSE**

Our goal this school year is to engage students in active learning. Students will build their understanding on numbers, their operations, and their algebraic representations, through a variety of models, such as base-ten pieces, rulers, and verbal modes. Students will be able to apply their skills to problem-solving situations.

### **2. SKILLS**

By the end of the course, students will be able to:

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Apply conversions between fractions, decimals and percents to solve real world problems.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Draw, construct, and describe geometrical figures, describe the relationships between them, and compute perimeter, and area.
- Use random sampling to draw inferences about a population (statistics and probability).



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### **3. CONTENT**

- Number sense and algebraic thinking.
- Measurement and statistics
- Decimal addition and subtraction
- Decimal multiplication and division
- Number patterns and fractions
- Addition and subtraction of fractions
- Multiplication and division of fractions
- Ratio, proportion, and percentage
- Geometric figures
- Geometry and measurements
- Integers
- Equations and functions
- Probability and statistics

### **4. TEXTBOOKS AND OTHER RESOURCES**

- Math, Course 1, by Larson, Boswell, Kanold, and Stiff; McDougal Littell
- The complete book of algebra and geometry
- Daily warm-ups grade 6
- Algebra kit 6 – 12
- Math grade 6

\*Students are expected to have the following material for class: Notebook for class notes, practice book, pencils, eraser, sharpener, red pen, colors (for geometry), geometry set (rulers, protractor, compass, etc.)

### **5. TEACHING STRATEGIES**

Students will benefit from a wide range of teaching approaches and strategies, including but not limited to: individual, pair and group work; a variety of written, oral activities; question and answer; small group and whole class discussion; independent and group research; debate; vocabulary crossword puzzles; math Jeopardy trivia game; collection of math puzzles and riddles; math games; math animated applets; math lesson media clips and PowerPoint presentations.

## **6. EVALUATIONS**

The students will receive a rubric (grid that lists criteria) explaining precisely how they will be evaluated for ALL assignments.

- Attendance – Coming prepared to class (5%)
- Participation and work habits (20%)
- Homework (20%)
- Quizzes (20%)
- Class Work (20%)
- Projects (15%)

## **7. OTHER REMARKS REGARDING OUR CLASS**

Be on time for class. Unexcused tardiness is not permitted.

Students must always be polite and respectful towards the teacher and peers. Do not make sarcastic, demeaning, or hurtful comments in or out of class. Offer constructive criticism in a respectful manner.

Expect homework on a daily basis.

Enrichment classes will be available upon student request.

It is student's responsibility to make up work after an absence. This includes reschedule quizzes, assignments due dates, and enrichment classes.