



## SUMMER STUDIES MIDDLE SCHOOL MATH (PAGE 1 OF 2)

PHCA promotes Summer Studies in order to keep our student's minds active and ready to return to school on July 27, 2018. In addition to concepts you need to practice and master listed below, please complete the Diagnostic Test for your grade level to see what areas you are unfamiliar with or need to fine tune. You will be assessed on mastery of Math concepts according to your grade level within the first weeks of school. This Test is **due Tuesday, July 31st** to your Math teacher. You will not be graded on amount right or wrong, however your test must show that you attempted to try each problem in order for you to receive credit for the test.

### SIXTH GRADE

- ◆ Order number from the least to greatest up to the millions
- ◆ Write and round numbers up to the millions
- ◆ Add, subtract, multiply and divide numbers up to the thousands
- ◆ Add, subtract, multiply and divide decimals
- ◆ Add, subtract, multiply and divide fractions with like and unlike denominators
- ◆ Compare and order fractions
- ◆ Reduce fractions
- ◆ Convert improper fractions to mixed numbers and vice versa
- ◆ Place value of numbers up to the millions place
- ◆ Factors and multiples
- ◆ Long division with remainder, also expressed as a fraction
- ◆ **Diagnostic Test 6th (attached)**

### SEVENTH GRADE

- ◆ Add, subtract, multiply and divide numbers up to the thousands
- ◆ Add, subtract, multiply and divide fractions with like and unlike denominators
- ◆ Compare and order fractions
- ◆ Reduce fractions
- ◆ Add, subtract, multiply and divide decimals
- ◆ Convert improper fractions to mixed numbers and vice versa
- ◆ One-step equations
- ◆ Factors and multiples
- ◆ Order of operations
- ◆ Inequalities
- ◆ Long division with remainder, also expressed as a fraction
- ◆ **Diagnostic Test 7th (attached)**

### EIGHT GRADE

- ◆ Add, subtract, multiply and divide numbers up to the thousands
- ◆ Add, subtract, multiply and divide fractions with like and unlike denominators
- ◆ Convert improper fractions to mixed numbers and vice versa
- ◆ Compare and order fractions
- ◆ Add, subtract, multiply and divide decimals
- ◆ One-step equations
- ◆ Multi-step equations
- ◆ Proportions and ratios
- ◆ Graphing on the coordinate plane
- ◆ Order of operations
- ◆ **Diagnostic Test 8th (attached)**



I ♥  
**SEVENTH  
GRADE**



## SUMMER STUDIES MIDDLE SCHOOL LANGUAGE (PAGE 2 OF 2)

*The Bible is the greatest piece of literary work, and best of all it is the Living Word of God. Everything you need to know about education, life, and salvation can be found in the Bible. Unfortunately, it is often tossed aside as old and irrelevant, or simply taken for granted. In addition to the assigned reading, students may use commentaries or other resources to glean better insights, if needed. Use this summer project to gain a deeper appreciation for the gift of God's Word. This paper counts for both a Language Arts and Bible grade for the first quarter and is **due Tuesday, July 31st** to your Language Arts Teacher.*

### SIXTH GRADE

- ◆ Read the **Book of Daniel**
- 1. Make a list of 10 words that made an impression on you. Explain why you chose them. Use complete sentences.
- 2. Choose three characters in the book that you either liked or disliked and explain why they made an impression on you in a five paragraph essay.
- 3. Make sure your essay includes:
  - a. First paragraph with a narrative "hook" to capture the reader, general theme of Daniel and introduction of the three main characters you chose.
  - b. A supportive and descriptive paragraph for each main character you selected (this would be 2nd, 3rd & 4th paragraphs).
  - c. A conclusion paragraph (5th) that sums why God may have chosen to write about the three characters & how you can apply what you've learned in your life.

### SEVENTH GRADE

- ◆ Read the **Book of Judges**
- 1. Make a list of 10 words that made an impression on you. Explain why you chose them. Use complete sentences.
- 2. Choose three characters in the book that you either liked or disliked and explain why they made an impression on you in a five paragraph essay.
- 3. Make sure your essay includes:
  - a. First paragraph with a narrative "hook" to capture the reader, general theme of Judges and introduction of the three main characters you chose.
  - b. A supportive and descriptive paragraph for each main character you selected (this would be 2nd, 3rd & 4th paragraphs).
  - c. A conclusion paragraph (5th) that sums why God may have chosen to write about the three characters & how you can apply what you've learned in your life.

### EIGHT GRADE

- ◆ Read the **Gospel of Luke**
- 1. Make a list of 10 words that made an impression on you. Explain why you chose them. Use complete sentences.
- 2. Choose three characters in the book that you either liked or disliked and explain why they made an impression on you in a five paragraph essay.
- 3. Make sure your essay includes:
  - a. First paragraph with a narrative "hook" to capture the reader, general theme of Luke and introduction of the three main characters you chose.
  - b. A supportive and descriptive paragraph for each main character you selected (this would be 2nd, 3rd & 4th paragraphs).
  - c. A conclusion paragraph (5th) that sums why God may have chosen to write about the three characters & how you can apply what you've learned in your life.