



Union County T.E.A.M.S. Charter School and High School/College Leadership Academy
515-517 West 4th Street Plainfield, NJ 07060 908.754.9043 * FAX 908.754.7790

July 9, 2015

SUMMER PACKET LETTER

Dear Incoming **Fifth Grade** Parents/Guardians and Students,

Summer is here! There will be time for playing, relaxing, and enjoying friends and family, but don't forget to make time for skill building! Your child has worked hard this year and we don't want them to forget the skills that they learned.

This Summer Packet is designed to provide students with practice for reading comprehension, writing, and basic math problem solving. You will have to print the packet out to complete. There are two math projects and one science lab activity to complete in the summer packet.

Parents/Guardians will need to offer assistance towards pacing your child for the remainder of July and the month of August with (do **NOT** wait to the last minute):

1. ■ Reading the required books
2. ■ Completing the reading assignments/activities
3. ■ Completing the two math projects and one science lab activity. Students will need to either have internet access or access to the public library to complete their projects. It is important to make sure the projects are neat and completed on time.
4. ■ Completing the math calendar activities each day

Note: An educational website list is included for further enjoyment.

All completing Summer Packets are due on **Monday, September 14, 2015** to your Homeroom Teacher. Your child will receive a grade for completing the packet.

If you have any questions, please feel free to call the school at 908-754-9043.

Happy Reading, Writing and Problem Solving!!!!

Your Partner in Teaching and Learning,

Brian A. Albanese

Director of Instruction/Principal K-8

REMINDER: FIRST DAY OF SCHOOL IS THURSDAY, SEPTEMBER 3, 2015

MATH AND SCIENCE PROJECT

Grade 5

Factoids:

Thumbelina, the world's smallest horse, is only 17 inches tall. Brookie, the world's largest horse is $77 \frac{3}{5}$ inches tall (19.2 hands). Brookie is $60 \frac{4}{5}$ inches taller than Thumbelina.

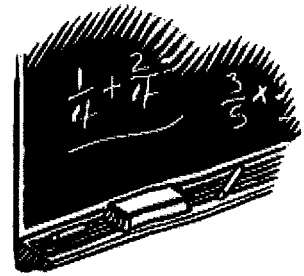
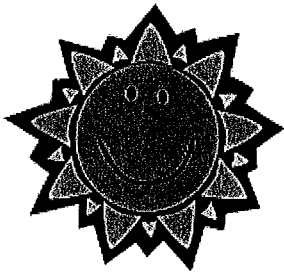
Directions:

Collect facts about animals that involve fractions or mixed numbers. Research these facts by taking a trip to the zoo, in the library, online, or from television nature shows that you see. Then, using the facts you collected pick one or two of the facts and use them to write and solve a problem that requires adding or subtracting fractions or mixed numbers. Finally, solve the problem and show all of your work.

Place the project on either half a sheet of poster paper, construction paper, or computer paper.

SUMMER READING LIST - CHOOSE #1 and ANY OTHER TWO

1. Holes by: Louis Sachar – **MUST READ**
2. Dear Mr. Henshaw by: Beverly Cleary
3. My Name is Brain Brian by: Jeanne Betancourt
4. Shiloh by: Phyllis Reynolds Naylor
5. There's A Boy In The Girls' Bathroom by: Louis Sachar
6. Maniac Magee by; Jerry Spinelli
7. Hatchet by: Gary Paulsen
8. Island of the Blue Dolphins by : Scott O'Dell
9. A Wrinkle in Time by : Madeleine L'Engle
10. Ella Enchanted by : Gail Carson Levine



Summer Reading Assignment

1. Read Holes by: Louis Sachar

After reading 'Holes', you will complete a project of your choice selected from the list below:

- _ Write the diary a main character might have written. Imagine you are the character from the story, using vivid details; write a diary for five days, as the character would have done.
- _ Create a marionette puppet for one of the characters from the book. Write a $\frac{1}{2}$ page description of this character in paragraph form.
- _ Make a poster which illustrates a scene from the story. Include the title of the story and show at least one character from the story on your poster.
- _ Write lyrics about one of the main characters that can be sung into a simple song - Twinkle, Twinkle or Row, Row, Row, Your Boat, for example. Make sure the lyrics include important information about the character and the events of the story. Feel free to write multiple verses.
- _ Construct a diorama (three-dimensional scene, which includes models of people, buildings, plants, animals, etc.) of one of the main events from the story. Include a written description of the scene.
- _ Create a timeline that presents the plot line of the novel in a logical sequence. Include at least 10 events with illustrations and a paragraph description of the overall theme.
- _ Make a map of where the events in the book take place.
- o **Projects will be assessed during the first days of school.
- o **Students will be assessed on the following:
 - o *Creativity and uniqueness
 - o *Content
 - o *Quality / effort / neatness
 - o *Understanding (does your project relate to the story and illustrate that you understand it?)

Submit the project with a cover page that includes an illustration, your name, grade, HBCU (Southern University), Subject (Language Arts Literacy), teacher's name, book title and author.

Project #2: BOOK COVER

Directions:

- Use a large sheet of construction paper (or a manila folder) and design a new cover for one of your three books. It must be original. Make sure to include the following on the front cover:
 - o Title
 - o Author
 - o Illustrator (you)
 - o Picture

- On the inside, design a book map by: illustrating the story plot.
 - o Include the main events from the book.

- On the back of your new cover, write a creative and appealing **three paragraph** summary describing the book. (Remember your summary should make people want to read the book.)

- Also on the back of your new cover, tell why you would recommend this book to a friend.

- **Be Neat & Creative!**

Project #3: This must be completed for each book read

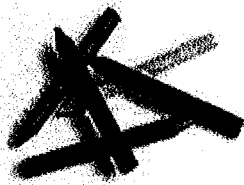
Postcard: Use a 5 x 7 inch index card or one half sheet of plain paper to complete this activity. Neatly illustrate one important aspect of the book you read on side #1 of the note card. Then neatly write (not type) the following information on the back of your illustration.

These will go towards your "30 Books Campaign"

Below is an example for you to follow.

SIDE 1

your neatly colored drawing



Side # 2: Answer in complete sentences; Create a stamp that pertains to the book

1. Who or what is the book about?
2. What is the setting of the book?
3. Describe the main character.
4. What is the conflict in the book?
5. What is your opinion on the book?

Your Full Name

Grade

Date

Book Title

Name of Author

Publisher, City

Date published

MATH AND SCIENCE PROJECT

Grade 5

Factoid:

There are approximately 84.4 million acres of land in the National Park System. The largest National Park is the Wrangell-St. Elias National Park and Preserve in Alaska which encompasses 13,200,000 acres. The smallest National Park is the Thaddeus Kosciuszko National Memorial in Pennsylvania which measures two-tenths of an acre.

Directions

Find the area of 4 parks that are part of the National Park System. Then subtract each measure from 84,400,000. You will need to research facts in the library or use online sources.

MATH AND SOCIAL STUDIES PROJECT

Grade 5

Factoid:

The shape of man-made structures is the result of available tools, materials and technology. Sometimes it is more economical to construct a building in a particular shape. Sometimes the purpose of the structure dictates the shape.

Directions:

Collect pictures of unusual architecture and create a poster board. Identify the geometric shape of the structure and give a reason for constructing that shape.

Pictures could include the following:

Pyramids- Egyptian pyramids, Louvre in Paris

Cylinders- silos, water towers

Gazebos- hexagonal prisms or other based prisms

Octagon shaped houses- most popular in the U.S. from 1950-1960

Cube houses- mass-produced by Sears Roebuck

Domes- Disney's Spaceship Earth

***You may display your pictures on construction paper, printing paper, or poster board. Your work must be neat AND creative!**

Student Name: _____

Incoming Grade 5 Summer Math Calendar

~ July and August

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>Welcome to the summer math calendar for students entering Fifth Grade. Reviewing the learned skills will maintain the foundation for math success at the next grade level.</p>	<p>The answer to a division problem is 23. What was the problem?</p> <p>How can you change the problem so that it has a remainder of 3.</p>	<p>Draw three different designs that are all $\frac{3}{4}$ green. How are the designs similar? Different?</p>	<p>Students from three classes are planning a field trip. On the trip, there will be 24 students from each class, along with 8 teachers and 12 parents. How many people go on the trip?</p>	<p>FREE DAY</p>	<p>A student says that $\frac{1}{5}$ is bigger than $\frac{1}{4}$ because 5 is bigger than 4.</p> <p>Are they correct? Why or why not?</p>	<p>Sarah rounded a four digit number to 3,500. What could her number be?</p> <p>What other numbers could be rounded to 3,500?</p>
<p>Alex says the shape is a rhombus. Carolyn says the shape is a square.</p> <p>The teacher says they are both correct. Why?</p>	<p>Write the following number in expanded form.</p> <p style="text-align: right;">24,036</p>	<p>Write a multiplication word problem and teach someone the steps to solve it.</p>	<p>Mrs. Brewer and Mrs. Glawe each ate $\frac{3}{4}$ of their sandwich. Mrs. Brewer ate more than Mrs. Glawe.</p> <p>Explain how this is possible.</p>	<p>Solve:</p> <ul style="list-style-type: none"> • 4,689-2,349 • 5,008-899 • 1,000-749 	<p>Four families each brought the same number of chairs to a block party. Three more chairs are needed to seat all 27 of the participants. How many chairs did each family bring?</p>	<p>How many $\frac{1}{4}$ are there in $2\frac{3}{4}$?</p> <p>What about it $4\frac{1}{2}$?</p>
<p>My calculator's subtraction key is broken.</p> <p>What else could I put into the calculator to solve this problem?</p> <p style="text-align: center;">$68 + X = 413$</p>	<p>Sort these fractions: Are they closer to 0, $\frac{1}{2}$ or 1?</p> <p>Draw a picture or model to prove it.</p> <p>$\frac{5}{6}, \frac{3}{4}, \frac{7}{9}, \frac{2}{5}, \frac{2}{3}, \frac{1}{8}$</p>	<p style="text-align: center;">3.091</p> <ul style="list-style-type: none"> • Is this number closer to 3 or 4? • Is this number closer to 3 or 3.1? <p>Be sure to explain how you know.</p>	<p>Order these decimals from least to greatest:</p> <ul style="list-style-type: none"> • 34.098 • 33.999 • 34.908 • 34.089 	<p>Draw three different shapes that all have a perimeter of 46.</p> <p>How are they similar? How are they different?</p>	<p>The area of Mr. Burd's rectangular garden is 240 square feet.</p> <ul style="list-style-type: none"> • Give at least two different possible measurements for his garden. • Compare the perimeters of these gardens. 	<p>Sean has 21 cents in his pocket. Sean told Jesse that he would give Jesse the 21 cents if he could correctly guess what coins they were. He would give Jesse 3 guesses. If Jesse did not guess correctly, Jesse would have to give Sean 21 cents. Should Jesse guess? Explain your math thinking.</p>
<p>Write a division word problem and teach someone the steps to solve it.</p>	<p>Two brothers want to make muffins for the 35 kids at their summer camp. They have \$5.00 to spend on muffin mix. The box of muffin mix said it would make 12 muffins. Each box of muffin mix is \$1.25. Will the boys be able to make enough muffins for everyone?</p>	<p>Order these fractions from least to greatest.</p> <p>$\frac{1}{3}, \frac{1}{8}, \frac{1}{5},$ and $\frac{1}{10}$</p> <p>Draw a model to prove you are correct.</p>	<p>Solve:</p> <ul style="list-style-type: none"> • 24×5 • 312×6 • 129×12 	<p>In the Land of Oz lives Ozzie, who is confused about time. He is trying to figure out how many times a day the hour hand passes a number that is a multiple of 3.</p> <p>What is the answer?</p>	<p>The answer is 312, what is the question?</p> <ul style="list-style-type: none"> • What other questions could have this same answer? • Can you come up with a problem that uses multiple operations? 	<p>Name at least two numbers that come between 2.7 and 2.8.</p> <p>Create a number line to show these decimals.</p>
<p>Draw a picture that includes the following (you may add more):</p> <ul style="list-style-type: none"> • 2 parallelograms • 1 right angles • 1 obtuse angle • 1 trapezoid 	<p>What are the missing #'s?</p> <p style="text-align: center;"> $38 \underline{\quad} 4$ $410 \underline{\quad}$ $\quad + \underline{\quad} 74$ $\underline{\quad} 8900$ </p>	<p>The teachers ate a lot of candy at their meeting! Who ate the most? Least? How can you prove it?</p> <p>Mr. A ate $\frac{2}{6}$ of her bar Mr. B ate $\frac{2}{3}$ of his bar Ms. C ate $\frac{5}{6}$ of her bar Mrs. D ate $\frac{1}{2}$ of her bar Mr. E ate $\frac{1}{3}$ of his bar</p>	<p>The difference between two numbers is 2,106. What could the two numbers be? What other two numbers have the same difference.</p>	<p>The design of the activities on this calendar is meant to support instruction in the Common Core State Standards in both its content and presentation. Therefore the activities are not to be done as independent problems, but to be worked on with a parent, guardian or older brother or sister. Talking about the problem is an important part of completing each activity. On the next pages of this calendar are recommended math websites for more reinforcement of math concepts and computation. You may need to use additional sheets to complete the problem. Please be sure to label each problem with the correct</p>		

<http://www.allmath.com/>

This site has flash cards and links to other sites for games, math humor, worksheets, math help and more.

<http://www.aplusmath.com>

This site has basic facts flash cards and a game room, worksheets, multiplication table practice and more.

<http://www.mathfactcafe.com>

This site has a pencil next to pre-made cards so kids can do the facts and have the computer check them. Kids can print them out and also put in their own numbers and make their own worksheets.

<http://www.funbrain.com>

This site has easier to harder addition and subtraction computation and problem solving. It also has language and grammar skills activities

<http://www.dositev.com/>

This site is a lot of fun and is good for 2 digit addition with and without regrouping

<http://www.24game.com>

This site has math games using basic operations

<http://www.coolmath4kids.com>

This site has a wide range of topics and will give you step-by-step instructions.

<http://www.abc.net.au/countusin/games>

Each game is designed to help kids understand basic concepts in math. This site has a variety of math games i.e. volume, length, halves, chance, numbers, time, sorting, subtraction, and addition. It is better for students of the primary grades.

<http://www.learningplanet.com>

This site has games by grade level but with advertisement and a subscription. There are some free games.

<http://www.gamequarium.com>

This site has math activities for K-6.

<http://www.SETGame.com>

This is a card game to build students' visual thinking and pattern skills in math. Commercial, but does have some great free puzzles.

<http://www.math.com>

Good resource of how to do problems

<http://www.mathcats.com>

This is an interactive fun site

<http://www.spikesgamezone.com>

Lots of math games

<http://www.funschool.com>

This site has games, but also commercial advertising

<http://www.figurethis.org>

This site gives you ideas for fun hands-on math activities. Good for upper grades

<http://www.kidsites.com>

List of sites for math as well as other subjects.

<http://timezattack.com>

FREE home version for practicing multiplication facts (also new versions for division, addition, and subtraction!)

<http://abcya.com>

Loads of math games for K-5 as well as games for reading and language arts