



OLC Summer Enrichment Middle School

Dear 6th, 7th, and 8th Grade Parents,

Welcome to Middle School! This year was a busy year for your child. Each student has grown and learned so much this past school year. We want that learning to continue over the summer to help prepare your child for a fun-filled, academic rich, middle school experience. Please visit the OLC website and click on the Summer Enrichment link to access the packets. The packets include: math enrichment to increase arithmetic fluency, literacy activities, books to build reading comprehension skills, social studies, and science to incorporate into our 2022-2023 STEM year. The work is due the first week of school and will be reviewed by the classroom teacher. These activities are a great starting point for jump starting the academic year.

During the summer months, it is critical that children continue to apply fundamental literacy and math skills to minimize the summer “slide” or loss of skills. If your child uses the resources assigned in the enrichment packet, he/she will be better prepared for the challenges of middle school and will begin the year on a path to success. Remember, it is important to practice regularly in order to demonstrate proficiency.

The attached pages outline the summer enrichment activities planned for incoming sixth graders. We ask that you only focus on this packet to maximize skill development and quality of work product.

Sincerely,

Mrs. Catarine, Mr. Carroll, Mrs. Dennis, and Ms. Coates

7th/8th Grade Reading, Writing, and Social Studies

Over the summer, it is important to keep reading, especially books you enjoy. This work will be continued at the start of school so it's important to complete and bring in on the first day of school.

Materials:

- Three independent reading novels (No Comic Books)
- One online nonfiction article
- One reading journal

Reading for Language Arts:

Choose 3 fictional novels to read. Reflect on the reading and create your own method of tracking important information. Keep track of your novels in one journal for all three novels. For each novel, you'll need 5 journal entries for all three books, a total of 15 journal entries. Your journal entries should include any of the following responses: Character traits, character maps, plot maps, Venn diagrams, questions you are wondering, questions you have for characters, predictions you have, sketches of what you are visualizing, inferences, connections, etc. No summaries.

Follow the rubric below for reading responses or email me if you have questions.

Reading for Social Studies:

STEM portion: Choose non-fiction online articles to read about a country and complete the "Country Focus" portion of the STEM template. Your country's research will be used in preparation for the 2022 --- 2023 STEM Project. You will need to conduct research and complete a template to select your End-User, country, and challenges they face. Your notes should reflect your own interpretations, but need to answer: Who, Where, Why.

Credit for Social Studies STEM assignments will be included in the Science Requirements for STEM.

The following are prompts to help you answer these questions:

WHO

- Typical everyday life
- Average family size and life expectancy
- Food source, art, customs and culture
- Quality of education and housing
- Tell who this problem affects, who is most at risk and why they need attention.
- Tell what kind of people live here, what their living and cultural situation is.

WHERE

- Name(village, town, city and country)
- Continent
- Neighbors(neighboring countries)
- Terrain (elevations, relief, landforms, regions, coastal or landlocked)
- Climate(temperature, rainfall, seasons, weather factors that cause problems)
- Tell where the problem is in relation to the country's region.
- Tell what kind of climate and environment the county is.

WHY

- In bullet format, give specific problem details such as dramatic statistics and facts that support the problem
- Tell what % of the population is affected by the problem
- Tell how this problem impacts the everyday lives of the End--User
- Tell how this problem also impacts the lives of people globally, not just the country you choose.

Reading Response Rubric --- Counts as Quiz Grade

	4	3	2	1
Comprehension	Excellent understanding of the story	Indicates good understanding of the story	An opinion with a brief reaction	The response is brief
Evidence	All ideas are supported with evidence	Ideas are supported with adequate evidence	May pose a question or evidence about the reading	Ideas are not supported with evidence
Reflection	Plenty of explanations and ideas with questions raised and answered by student that show interest	Adequate explanations and ideas with questions raised and answered by student	Few or no explanations indicate student read	Indicates minimal understanding

STEM Engineering Project Summer Enrichment

Dear Incoming 6th, 7th, and 8th Grade Students,

Welcome back to STEM Engineering. To prepare you for the 2022-2023 STEM Engineering projects, you will do some scientific research during the summer. Based on the problem your End-User is faced with from your Social Studies reading, use the Internet to:

Part I:

- a. Find 2 solutions that have already been tried by others to help the End-User with their problem(s).
- b. Explain how these solutions were successful or why they were not successful.

Part II:

- a. Brainstorm three possible solutions of your own to help the End-User solve their problem(s). (*Give a brief description of your proposal, not just a title.*)
- b. Of the three proposed solutions, give a more detailed plan with sketches of the one you are most interested in and want to present to the class in September.

Part III:

Identify and explain some of the scientific background concepts that helped you understand how to design and build your proposed prototype and make it work. (*Use pictures, illustrations, etc. to help explain the concepts*)

In September, you will be assigned to a group. You will introduce your End-User and the problem(s) they face by way of a persuasive oral report to your group members and class. You will also present your proposed prototype solution. Your group will vote on which End-User and prototype solution they will focus on for the year. Your goal in this research is to gather enough information that will convince your group to vote on and help your proposed End-User solve their problem(s).

- 3) The difference between a number and 4, when multiplied by 9 is 54. What is the number?

- 4) When 12 is added to half the sum of a number and 3 the result is 28. What is the number?

- 5) One angle of a right triangle is 2 less than 3 times the size of the other acute angle. What is the measure of each angle?

Solve the following. Show all work.

- 6) Hank's gas tank holds 18.5 gallons. If the tank has 6 gallons of gasoline in it, what percent of the tank is empty?

- 7) The asking price of a house was \$358,500. It was finally sold at a 12% loss. How much money was lost on the sale?

- 8) The realtor who sold the house mentioned in problem 12 received a commission of 6 %. How much money did the realtor earn for selling the house?

- 9) Mr. Morris borrowed \$25,000 from the bank. The time of the loan was 4 years. How much will he pay if the interest rate is 5.25%? (Use simple interest.)
- 10) Eliza drew a scale drawing of her bedroom. The drawing shows a room that is 4 inches by 3 inches. The scale she used is 1 inch : 4 feet. What is the area of her actual bedroom?
- 11) Michael is planning a trip to Hooperville. On the map, it is 3.5 inches from his home town. The map's scale is 1.5 inches : 50 miles. How far away is Hooperville from his home town?
- 12) The Yankees won 95 games in 2010 and 97 games in 2011. What is the percent of change in the number of wins from 2010 to 2011?

(13-20) Evaluate the following expressions when $x = -40$, $y = 100$, and $z = 75$. Show all work.

$4x$	$x + 25$	$z - 14$	$-3x$
$\frac{4z}{y}$	$\frac{y}{4} + 5$	$5(y - z)$	$2(x + y) - z$

Write and solve an equation for each of the following problems. Show all work.

21) The sum of a number and 98 is 167. What is the number?

22) Terry has 14 coins. She has some quarters, 5 nickels and one dime more than she has nickels. How many of each coin does she have? How much money does she have all together?

23) Six times a number increased by five is fifty-three. What is the number?

24) The length of a rectangle is 4.5 times its width. The area of the rectangle is 36 square meters. What are the length and width of the rectangle?

25) Tamara bought three skirts at one price and 2 skirts priced \$3 below the others. The total cost was \$118.95. Find the price of the skirts.

Use a scale of 2 inches : 45 miles for the following problems.

26) If two cities are 5 inches apart on a map, how far away are they in real life?

27) If two cities are 150 miles away in real life, how far apart are they on the map?

Solve.

28) If a student is going to flip a coin and roll a six sided number cube, what are the chances that the outcome will be heads and a number two or less?

29) How many possible ways are there to rearrange the letters in the word JUMP? Remember the arrangements do not have to spell real words.

Additionally, please complete at least 10 of the following skills on IXL. Please aim for a Smart Score of 80+, but if after 15-20 questions you do not have a 100, feel free to record your score and number of questions below and move on to the next skill.

If you have any difficulty in accessing your account, please contact me and I will be happy to assist you.

Skill	Date Completed	Questions Answered	Score	Parent's Initials
7.A.9				
7.C.24				
7.C.25				
7.L.2				
7.S.8				
7.T.3				
7.T.7				
7.W.17				
7.W.20				
8.P.1				
8.T.3				
8.Y.15				