



7th Grade Summer Work Packet

Please read all instructions for your scholar's summer work. This work is designed to give scholars a preview of the upcoming year and ensure they are ready for learning on Day 1. Scholars will earn a test grade in each core class for their thinking, effort, and attention to directions.

GUIDELINES:

- Neat and organized
- Show work (when applicable)
- Completed independently showing scholar's best thinking
- Original work (plagiarized assignments will be automatically counted as a zero and the scholar will face disciplinary action per our Code of Conduct.
- Late assignments will lost 20 points for each day it is late. After the 3rd day, it will not be scored.
- Copies of the packet will be posted on the website.

Contents:

1. 7th Math Assignment
2. 7th ELA/Humanities Assignment
3. 7th Science Assignment

7th Grade Math Summer Work Assignment

Instructions: Complete the basic math skills pages and choose one of the real-world activities to complete.

Basic Math Skills

Show your work in the space under each problem.

Solve each expression using the correct order of operations.

$$2^3 \times (8 + 4 - 10)$$

$$2 \times (3^3 - 5 + 8)$$

$$(3 \times 2^2) \div (6 - 4)$$

$$3^3 \times (6 + 2 - 8)$$

$$(3^2 - 8 + 2) \times 4$$

$$(9^2 - 8 + 2) \div 5$$

Find each product.

$$\begin{array}{r} 45 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 9.5 \\ \times 0.86 \\ \hline \end{array}$$

$$\begin{array}{r} 4.3 \\ \times 9.5 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 0.59 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \times 0.75 \\ \hline \end{array}$$

$$\begin{array}{r} 5.8 \\ \times 4.6 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ \times 0.93 \\ \hline \end{array}$$

$$\begin{array}{r} 4.1 \\ \times 0.23 \\ \hline \end{array}$$

Use an integer strategy to find each answer.

$-6 - -5 =$

$25 - 6 =$

$-9 \times -4 =$

$18 - -19 =$

$10 \times 13 =$

$-9 \times -9 =$

$18 - 12 =$

$7 + -14 =$

$-24 \times 24 =$

$-132 \div 22 =$

$-88 \div 4 =$

$4 - 19 =$

$7 + 3 =$

$396 \div 22 =$

$-17 \times 3 =$

$7 - 3 =$

$3 - 24 =$

$7 + 25 =$

Find the value of each unknown.

$11 - u = 9$

$4 \times d = 12$

$48 \div u = 6$

$4 \div f = 2$

$m \div 9 = 8$

$8 - r = 6$

$6 + d = 10$

$7 - b = 1$

$k \times 9 = 81$

$10 - b = 9$

$6 \div p = 3$

$m + 9 = 17$

$b \times 8 = 48$

$5 + u = 13$

$5 + a = 6$

$8 - r = 4$

$v - 5 = 1$

$21 \div y = 3$

$t + 4 = 5$

$9 \times z = 63$

$15 \div x = 5$

$3 \div d = 1$

$y - 9 = 6$

$z + 7 = 13$

Find the value of each expression in lowest terms.

1. $\frac{7}{4} - \frac{8}{5}$

5. $\frac{3}{2} - \frac{9}{7}$

9. $\frac{4}{3} - \frac{2}{5}$

2. $\frac{23}{2} + \frac{9}{4}$

6. $\frac{7}{10} + \frac{2}{5}$

10. $\frac{5}{2} + \frac{2}{3}$

3. $\frac{8}{3} - \frac{3}{2}$

7. $\frac{14}{5} - \frac{4}{3}$

11. $\frac{9}{8} + \frac{5}{6}$

4. $\frac{5}{2} - \frac{13}{12}$

8. $\frac{17}{7} - \frac{5}{3}$

12. $\frac{9}{7} - \frac{5}{6}$

For extra practice on math skills, go to the following websites.

- <http://www.arcademics.com/>
- www.mathplayground.com
- <https://www.khanacademy.org/>
- <https://www.mathplanet.com/>
- <https://www.funbrain.com/math-zone>
- <http://Mathblaster.com>
- <http://multiplication.com>
- <http://LearnZillion.com>
- www.studyisland.com
- www.stmath.com

7th Grade ELA + Humanities + Art Summer Work Assignment

The summertime sounds fun, but it can make the transition from sixth to seventh grade really difficult. Summit's students can start strong in the fall if their reading habits don't slide away during the summer. The more students read, the stronger their skills are in all subject areas.

In 7th grade ELA, we read 3-5 novels as a class and 3-5 novels at home... so we need to become expert independent readers so that we can learn to write expert essays as well!

Assignment

Students must read at least 2 books this summer and complete the two assignments below for **each book**. Assignment #1 is required for each book. For assignment #2, they will have a choice between multiple options. In total, they will turn in 4 assignments (2 assignments per 2 books).

Assignment 1: Draw an alternate book cover for your book. It must be on an 8x11 sheet of white paper and colored for full credit. It must reflect and show an understanding of the novel's content and importance.

Assignment 2 (choose an option from this list... your option choice can be different for your two books):

Option A: Write a book review. Do you recommend this book to other readers? Why or why not? (check newspapers, in print or online, and magazines like *Time* for examples or book reviews)

Option B: Do some creative writing. Re-write a scene from the perspective of another character. Or re-write the plot in a different setting. Or re-write the ending. Or write the novel in poem-form. Whatever kind of text you write, include an explanation that links your creative work back to the book you read. Explain how your work is related to the author's work.

Option C: Write a letter to the author about the book. The content of the letter is up to you. You can talk about your favorite parts of the book. You can ask the author how he came up with the idea for the book or why he/she chose to develop the plot or characters or theme in a certain way. You can explain ways you think the book relates to your own life, or you can make connections between the book and the real world.

Option D: Select an interesting issue raised in the book. Write a brief explanation of how the issue was raised and why you find it interesting. Research the topic further, and write about your research, citing sources as needed.

Option E: Character description--give the name and chapter of each character introduced in the novel and a sentence from the novel that describes them. Then, tell me what you can infer about the character's personality.

How to pick a book

Thumb through the book and pick a page: if there are more than 3 words that you don't know, it is too hard for you to read on your own. If you know every single word, it is too easy for you to read on your own. Be sure to pick a book on your reading level, I will be checking.

Some book suggestions...

Series

The *Artemis Fowl* series by Eoin Colfer—fantasy, action, humor

The *Alex Rider Adventure* series by Anthony Horowitz—action, spy thriller

The *Harry Potter* series by J. K. Rowling—fantasy, magic, action

The *Percy Jackson and the Olympians* series by Rick Riordan—fantasy, action

The *Books of Ember* series by Jeanne DuPrau—dystopia, politics

The *Inkheart* trilogy by Cornelia Funke—fantasy, action

The *Georges and the Jewels* by Jane Smiley—drama, horses

The *Gone* series by Michael Grant—supernatural, action

The *Gatekeepers* series by Alex Horowitz—supernatural, action

The *Children of the Lamp* series by P.B. Kerr—supernatural, actions, international

Realistic Fiction

Fat Cat by Robin Brand

The Postcard by Tony Abbot

Pieces of Georgie by Jen Bryant

Uprising by Margaret Peterson Haddix

Nonfiction

The Real Benedict Arnold by Jim Murphy

The War to End All Wars: World War I by Russell Freedman

Sir Charlie Chaplin: The funniest Man in the World by Sid Fleischman

The Surrender Tree: Poems of Cuba's Struggle for Freedom by Margarita Engle

Fantasy

The Extraordinary Adventures of Alfred Kropp by Richard Yancey

The Grimm Legacy by Polly Shulman

Dragon's Keep by Janey Lee Carey

The Prince of Mist by Carlos Ruiz Zafon

Action and Sports

Tangerine by Edward Bloor

Holes by Louis Sachar

Hoot by Carl Hiaasen

The Brain Finds a Leg by Martin Chatterton

7th Grade Science Summer Work

As scientist we use the scientific method to find answers real world questions which we want an answer for.

You will need to come up with 3 questions/topics that are connected to the real world. Then you will go and research your questions/topics and find information that can help you create a hypothesis to answer your questions/topics. These questions/topics should have some interest to you and should address a problem/concern to the real world. These questions/topics will be used in the upcoming school year for a science project.

Requirements

For each question/Topic, you must have:

1. Research for each question/topic
2. Cite a minimum of 3 resources that you used for your research (books, academic articles, websites, etc...)
3. Based on your research of your question/topic, create a specific question you would like to investigate following the scientific method and explain why you want to complete an investigation
4. Based on your research and your question, write and valid hypothesis to answer your question.