



7th Grade Summer Projects

Name: _____

Grade Level Expectations

<p style="text-align: center;">English Language Arts</p> <ul style="list-style-type: none"> Students should be able to read grade-level texts with accuracy, automaticity, and appropriate expression. Students should be able to present information orally, in a logical sequence, appropriate volume, clear pronunciation, and appropriate pacing. Students should be able analyze how setting, events, conflict, and character development contribute to the plot in a literary text. Students should be able to write fictional narratives using a logical sequence of events and demonstrating an effective use of techniques such as dialogue, figurative language, and transitional phrases. Students should use their knowledge of context clues and/or background knowledge to determine the connotative and denotative meaning of significant words in a text. Students should be able to use digital tools to produce writing that includes proper capitalization, spelling, and punctuation. 	<p style="text-align: center;">Math</p> <ul style="list-style-type: none"> Students should be fluent in all multiplication fast facts (0-12). Students should know how to round numbers up to three digits after the decimal point. Students should know vocabulary words associated with the four operations of computation. Students should be able to compute problems involving integers, fractions, and decimals (up to three digits before and after the decimal). Students should be able to solve one step equations and inequalities involving integers, decimals, and fractions. Students should be able to determine the area of quadrilaterals and surface area of rectangular prisms. Students should be able to find mean, median, mode, and range of a data set.
<p style="text-align: center;">Science</p> <ul style="list-style-type: none"> Students should be able to define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions Students should be able to Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water Students should be able to describe the layers of the solid Earth, including the lithosphere, the hot convecting mantle, and the dense metallic liquid and solid cores. Students should be able to recognize that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins. 	<p style="text-align: center;">Study Skills</p> <ul style="list-style-type: none"> Utilize Connect to stay up to date on weekly assignments and contact teachers for questions or completed late assignments. Be familiar with google drive (google docs, google sheets, google slides) as well as Microsoft Office (word, PowerPoint, and excel) Incorporate regular study habits into a routine (example: pomodoro technique) Utilize materials for reference: reference sheets, notes, textbooks, and novels.



Please complete 2 tasks from the table:

Number and Operations	Algebraic Reasoning	Geometric Reasoning	Statistics & Probability	Fractions
Real World Research and make a top five list of where you would find positive and negative numbers used in the real world. Create five word problems using your top five list with integers. Don't forget to Include an answer key!	Anchor Chart Create an anchor chart showcasing the steps to solve one step equations Include examples for all operations; adding, subtracting, multiplying and dividing. OR Create an anchor chart showing how to solve one step inequalities. Include examples for all operations; adding, subtracting, multiplying and dividing with each symbol $>$, $<$, \geq , and \leq . Be sure to include the number line graphs for each.	Create and build a 3D dog house Size and shapes are your choice. Recommended are rectangular and triangular prisms or pyramids. With this dog house, also provide a 2D net of your figure, the dimensions for each shape, and the surface area of the overall figure.	Jumping Dot Plot Jump and measure the distance you traveled fifteen times. Record the data in a dot plot. Find the minimum, maximum, mean, median, mode, and range of the data.	Cooking Video Film a how-to cooking video with your favorite recipe! In your explanation include the math breakdown/ combination of ingredients. Be sure to use correct math terminology.

Recommended Math Websites:

Reflex (multiplication fast fact practice in game format)

IXL (Practice with fluency and word problems with a range of grade levels and topics)



Please complete 2 tasks from the table:

Life Science	Nature of Science	Earth Science	Physical Science
<p>Watch this video: Volcano types: Cinder cone, composite, shield and lava domes explained - TomoNews - YouTube .</p> <p>Follow the attached directions and make a circle book of the three different kinds of volcanoes. There are reading materials attached to assist students.</p>	<p>Watch this video on the scientific method. The Scientific Method: Steps and Examples - YouTube.</p> <p>List the steps on a sheet of paper. Use M&Ms, Skittles, Fruit Loops, etc., to determine which color is found more in the different bags. Students will make a prediction based on their background information, then categorize the food by color, and then count each. Use the scientific method steps to assist you in this lab! Your testable question will be: “Which color will be found most in the different bags?”</p>	<p>Pick a cause/ implement change. How do you feel human interaction most affects our environment? What cause do you support? Create an invention to promote change! Create a brochure or poster. Choose one cause to support. Draw at least 3 images, have 5 facts, and a proposed invention to help change and improve the world!</p>	<p>Watch this video on the layers of the earth. Why Does The Earth Have Layers? - YouTube.</p> <p>Follow directions on the attached pages to create a comic on the Journey to the center of the earth. A rubric is provided.</p>

Science Websites: [The scientific method \(article\)](#) | [Khan Academy](#)

[8 Different Types of Environmental Pollution](#) | [Earth Reminder](#)

[What Are The Layers Of The Earth? - WorldAtlas](#)



Please complete 2 tasks from the table:

Fluency	Reading	Communication	Vocabulary
<p>Record yourself reading a significant section of the book out loud (at least three paragraphs). Explain why this section of text is significant. Upload your video to: https://flip.com/0f137d57 **</p> <p>This section of text can be significant because:</p> <ul style="list-style-type: none"> - a character has gone through a change - a character has learned a lesson - it demonstrates the theme of the book - a major conflict (internal or external is taking place) - it describes the setting, which contributes to the plot - the resolution is taking place 	<p>Create a timeline that highlights <u>at least ten</u> important events in the book. Each timeline event should include:</p> <ul style="list-style-type: none"> - a description of the event (at least two sentences) - an explanation of the importance of the event (at least one sentence) - a symbol/image to represent the event <p>Your timeline can be made by hand or created on the computer.</p>	<p>Retell the story (or significant chapter) using:</p> <ul style="list-style-type: none"> - a different point of view <p>OR</p> <ul style="list-style-type: none"> - a different ending <p>Include at least one visual (an image, picture, or clip art) to accompany your new retelling.</p> <p>This should be <u>at least one page</u> (single-spaced and 12-point font) OR <u>at least two pages</u> (double spaced and 12-point font).</p>	<p>Find 10 words from the novel that are especially significant or challenging to create a glossary. The words chosen should describe or reveal something about characters, the setting, or any important ideas in the book.</p> <p>A completed glossary will include:</p> <ul style="list-style-type: none"> - the word - the dictionary definition - the connotation of the word - the sentence from the book that includes the word - a visual image to illustrate the meaning of the word



BEST books to choose from for 7th grade:

- Old Yeller by Fred Gibson
- The Count of Monte Cristo by Alexandre Dumas – (Can include the “Great Illustrated Classic” version)
- The Red Umbrella by Christina Diaz Gonzalez
- The Twenty-One Balloons by William Pène du Bois
- The Yearling by Marjorie Kinnan Rawlings
- The Adventures of Tom Sawyer by Mark Twain
- The Hobbit by J.R.R. Tolkien
- A Wrinkle in Time by Madeleine L’Engle
- Ender’s Game by Orson Scott Card
- Peak by Roland Smith
- The Westing Game by Ellen Raskin

*** from HMH selection of long reads



Please complete 2 tasks from the table:

Enlightenment Thinkers	Famous Documents	Colonial Grievances	Declaration of Independence
<p>Watch this video on enlightenment thinkers</p> <p>Help John Locke and Baron de Montesquieu spread the word about their new ideas. Create a brochure highlighting the ideas of Locke and Montesquieu. Your brochure should have a <u>clear title</u> and include Locke's ideas of <u>natural law</u> and <u>social contract</u>, as well as Montesquieu's ideas on <u>separation of powers</u>.</p>	<p>Watch this video on the famous documents</p> <p>The founding fathers looked to 4 influential documents to guide them when creating the new nation. Select two of the famous documents to create a comic strip for. Your comics should tell the story of the document and include:</p> <ul style="list-style-type: none"> - a title (the name of the document) - 6 boxes/events: <ul style="list-style-type: none"> o The story of why the document was created o An explanation of this document o A flash forward to the founding fathers and the ideas they pulled from this document 	<p>Watch this video on the American Colonists</p> <p>There were many policies and actions from England that led to the colonists declaring independence on July 4th, 1776. Create a timeline of 7 events that led to the colonists declaring independence.</p> <ul style="list-style-type: none"> - Timeline must be titled - Timeline must be in <u>chronological order</u> - The year and name of event must be displayed clearly - For each event, include a 2 sentence description of what happened and how colonists reacted to this - 3 events must include a picture 	<p>Watch this video on the Declaration of Independence</p> <p>The Declaration of Independence was a very formal break up letter to the King of England. You can read the DOI in full here</p> <p>Create a 'DOI For Dummies' guide to help students understand what is being said in the Declaration of Independence.</p> <p>Create a poster, booklet, or brochure detailing the sections of the DOI and what they mean.</p> <p>Your guide must include 2-3 sentence explanations of the section, 1 simple illustration, and a direct quote from the DOI for each section:</p> <ul style="list-style-type: none"> - The Preamble - Natural Rights/Role of Government - List of Grievances - Formal Declaration (the breakup!)