

Grade 6 - Math

For Parents

- Work with your child to complete 3 of the tasks listed in the chart.

For Students

- Choose 3 of the tasks below to complete for this week.

<p>1. <u>MAKE 24</u></p> <p>Using all four of the digits -6, -1, 5 and 9, and any four operations (+, -, x, ÷), can you make the number 24? Can you make -24?</p> <p>You can use parenthesis. Remember Order of Operations.</p>	<p>2. <u>INTEGER OPERATIONS</u></p> <p>Write a situation that could be represented by this expression and solve it.</p> <p>$-20 + 10 + (-4)$</p>	<p>3. <u>RATIONAL NUMBER OPERATIONS</u></p> <p>Write and solve a word problem, using multiplication or division, with a fraction and a decimal.</p>
<p>4. <u>INEQUALITY</u></p> <p>Create your own one-step inequality, similar to the one below.</p> <p style="text-align: center;">$x - 5 > 27$</p> <p>Use a pictorial model and clearly written detailed directions to explain how to solve the problem you have created.</p>	<p>5. <u>AREA</u></p> <p>Draw a rectangle, parallelogram, triangle, and trapezoid with equivalent areas. Label all of the bases and height.</p> <p>Solve all problems to prove they have the same area. REFERENCE MATERIALS</p>	<p>6. <u>MEASURES OF CENTRAL TENDENCY AND VARIABILITY</u></p> <p>Record the number of hours you sleep each night for 5 days.</p> <p>Find the mean, median, mode, and range for the number of hours you sleep in 5 days.</p>
<p>7. <u>PERCENT APPLICATION</u></p> <p>Fifteen students make 12% of the band. Susan used the proportion $\frac{x}{15} = \frac{12}{100}$ to find the number of students in the band. Write a clear and detailed explanation to your teacher using correct math language on why the proportion is wrong. Explain the correct proportion to use and find the total number of students in the band.</p>	<p>8. <u>RATIONAL NUMBER OPERATIONS</u></p> <p>Write one multiplication and one division problem with decimals that have an answer of 6.5.</p>	<p>9. <u>EQUATIONS AND INEQUALITIES</u></p> <p>Think about how you can distinguish between an inequality and an equation in a situation.</p> <p>Using examples and/or pictures, write a paragraph that compares and contrasts an equation to an inequality.</p>

6th Grade Science Choice Board

Directions: Complete all assignments from your science teacher. Then select 2 OPTIONS from the choice board below. Click on the OPTION to see the instructions for that option. At the end of each day, fill in the progress log on [Slide 2](#).

<p><u>OPTION ONE</u></p> <p><u>PLATE TECTONICS</u> <u>Create a Google Slide Infographic poster about one of the major Geologic events created by plate boundaries.</u></p>	<p><u>OPTION TWO</u></p> <p><u>SPACE EXPLORATION</u> <u>Create a crew patch to commemorate space travel</u></p>	<p><u>OPTION THREE</u></p> <p><u>EVIDENCE OF CHEMICAL CHANGE</u> <u>Make a video of yourself performing a chemical reaction.</u></p>
<p><u>OPTION FOUR</u></p> <p><u>GO WITH THE FLOW!</u> <u>Create a flowchart of energy transformation that occurs in common household objects.</u></p>	<p><u>OPTION FIVE</u></p> <p><u>THE POETRY OF LIVING THINGS!</u> <u>Create a poem about a living organism of your choice!</u></p>	<p><u>OPTION SIX</u></p> <p><u>BIRTH OF AN ELEMENT!</u> <u>Create a birth certificate for one of the elements found on the periodic table.</u></p>
<p><u>OPTION SEVEN</u></p> <p><u>INSECT FIELD STUDY</u> <u>You will collect an insect from the field, identify it, illustrate it, and release it back into its natural environment, unharmed.</u></p>	<p><u>OPTION EIGHT</u></p> <p><u>WE ARE NASA!</u> <u>Write a letter to congress explaining why you think space travel is important.</u></p>	<p><u>OPTION NINE</u></p> <p><u>MAY THE FORCE BE WITH YOU!</u> <u>Design a kahoot assessment about the concepts of force and motion.</u></p>

Option 1: Infographic Poster

Instructions:

1. Choose **ONE** of these Geologic Events:

- Mountain-Building
- Volcanic Eruption
- Seafloor Spreading
- Earthquakes

2. Create Google Slide (or add a slide)and create an infographic poster about your event. 

3. REQUIREMENTS FOR INFOGRAPHIC POSTER:

- Colorful/creative title (your geologic event of choice)
- Type of plate boundary at which the event commonly occurs (convergent, divergent, or transform)
- Direction of plate movement during the event
- One specific example of the event in the real - world
- At least 2 pictures of a plate boundary where the geologic event occurs

Link your infographic poster here:

Option 2: Space Exploration- Crew Patch

Instructions:

1. Every mission that is taken in space has a crew patch Pick a planet, small body or moon to create a crew patch designed to represent it. Make sure that an observer could look at your patch and understand what your mission was about.
2. Use the links and website below to help
 - <https://www.nasa.gov/>
 - [Crew Patch Examples](#)
 - [Crew Patch Templates](#)
3. Requirements for Crew Patch
 - Your patch should include: the **mission name**, your **last name**, and a **design that symbolizes your mission**.
 - You can use any of the shapes provided or change the shape as long as you **don't change the size**.
 - The patch needs to be completed in **color**.
 - Can be created in google slides or by hand

Link Crew Patch or upload a picture of Crew Patch here:

Option 3: Evidence of Chemical Change

Instructions:

- Research a simple experiment that will produce a chemical change and uses common household items.
- Websites for ideas:
<https://melscience.com/US-en/articles/top-10-chemical-reactions-you-can-repeat-home/>
<https://www.thoughtco.com/top-chemistry-projects-604170>
https://www.youtube.com/watch?v=sJuJH_GT36k
<https://www.youtube.com/watch?v=bZDAqVoSMU8>
- Video yourself doing the experiment. As you perform the experiment, explain what is happening and why it is a chemical reaction. Be sure to point out the evidence of chemical change. Share the video with your teacher.
- **Note:** Your face does not have to be in the video.

DO NOT PERFORM AN EXPERIMENT WITHOUT YOUR PARENTS PERMISSION AND GUIDANCE - SAFETY FIRST!

Directions To Share Your Video:

1. Create video. Save your video to your Google Drive.
2. Insert it directly into this slide by clicking: "Insert" > Video > Google Drive > Search and Click on your video > Select.
3. Your video will then post on this slide.
4. If you have a link to your video you may copy and paste the link here:
My video link is:

Option 4: Go With The Flow!

Instructions:

Select three objects around the house (microwave, fan, TV, gaming system, etc) and create **three** flowcharts to show the **energy transformations** that occur.

- Example of energy transformation flowchart:



- Requirements for **three** flow charts:
 - Must include a minimum of two transformations (see example)
 - Identify the **Forms of Energy** (Chemical, Mechanical, Electrical, Thermal, Light)
 - Include images that represent the energy (Drawn or from Google)
- Flow Charts can be created in Google slides or drawn by hand.

Link Google Slide or upload a picture of Energy Transformations here:

Option 5: The Poetry of Living Things

Instructions:

Write a poem about an organism that interests you. Be sure to include the Domain, Kingdom, and characteristics that describe the organism.

(Autotrophic or heterotrophic, prokaryotic or eukaryotic, unicellular or multicellular, asexual or sexual, etc.)

Use these resources to help:

- [Characteristics of Classification](#)
- [Six Kingdoms of Life](#)
- [Six Kingdoms Information](#)

Poem Requirements:

- Create any type of poem; poems *do not* have to rhyme!
- You must include the following characteristics of your organism:
 - What domain does it belong to? (Bacteria, Archaea, Eukarya)
 - What kingdom does it belong to? (Bacteria, Archaea, Protista, Plantae, Animalia, Fungi)
 - What type of cells? (Prokaryotic or eukaryotic)
 - How many cells? (Unicellular or multicellular)
 - How does it reproduce? (sexual or asexual)
 - How does it get energy? (autotroph or heterotroph)
- Give your poem a catchy title.
- Type your poem on the [next slide](#). You can write your poem on paper, take a picture and upload it on the [next slide](#).

Type Title of Poem here

Type Poem here

Option 6: Birth Of An Element

Instructions:

Choose one element from the periodic table and create an **element birth certificate**. The following items must be included on your birth certificate:

- Birth mass / atomic mass of the element
 - Birth height / atomic number of the element
 - Race / type of element (Metal, Nonmetal, Metalloid)
 - Gender / state of matter (is it a solid, liquid or gas in its natural state?)
 - Nickname / Chemical symbol
 - Personality / physical characteristics
 - Year born / year discovered
 - Place of birth / country where discoverer made the identification
 - Physician in attendance / who discovered this element?
- ❖ Use the resources below to find the information above:
- <http://www.chemicalelements.com/>
 - <https://education.jlab.org/itselemental/>
 - http://www.chem4kids.com/files/elem_intro.html
- ❖ See an example of a birth certificate on the [next page](#).

An example of an Element Birth Certificate is shown below. Click on this [Element Birth Certificate link](#) to complete your own certificate, or you can create your own design in google slides and submit in the space below.

BIRTH CERTIFICATE

This is to certify that

Element Name

Birth Weight : Atomic Mass Birth Height: Atomic Number
Race: Type of element Gender: State of Matter
Nickname: Chemical Symbol
Personality: Physical Characteristics

Was born in the year of year discovered
in the country of country discovered
Physician in attendance was discoverer

Signature of Parent: _____

Link your Element Birth Certificate here

Option 7: Insect Field Study

Instructions:

1. Go outside to a warm, moist, sylvan (wooded) area. Look for insects under rocks, fallen leaves or tree branches. When you find an insect observe its characteristics and behaviors. Gently coax the insect into the jar, without harming it or yourself.
2. Make a list of the **abiotic** and **biotic** components present at the collection site.
3. Bring your insect inside. Identify your insect using the **Insect Identification Field Guide** at the website below:
 - <https://texasinsects.tamu.edu/>
4. Draw and color your insect in your journal or on a piece of paper. Include the fine details.
5. Release your insect back to the area it was found, unharmed.
6. In Google slides, or on the [next page](#), write your report and record information that includes the following:
 - A picture of your insect drawing
 - A description of where your insect was found
 - Include the biotic and abiotic components at the collection site.
 - How the insect's habitat supports the basic needs of the insect.

Add pictures and information for your Insect Field Study report in this section.

Option 8: “We Are NASA!”

Instructions:

In recent years, funding and support for NASA to begin new space exploration has not been high. **Write a letter to congress** about why you think space exploration is important. Be sure to include details that describe why NASA should continue to be supported and funded.

Before writing your letter, watch this video: [We are NASA](#)

Next: Pick the Senator or Congressperson you could like to write a letter to: **Senator Ted Cruz, Senator John Cornyn, Congressman Dan Crenshaw, or Congresswoman Lizzie Fletcher**, are some of the choices.

The letter should include the following items:

- A reason why you think NASA/Space exploration is important.
- A description of a past space exploration and the goals it achieved.
 - <https://www.jpl.nasa.gov/missions/?type=past>
 - <https://www.nasa.gov/subject/6896/past-missions/>
- An idea for future space exploration, and how this mission would benefit our nation.
- A proper greeting like, Dear Senator, (at the beginning) and salutation like, Yours truly (at the end).

Go to the [next page](#), to write your letter.

Write your letter about the importance of space exploration in the section below.

A large, empty rectangular box with a thin black border, intended for writing a letter about the importance of space exploration. The box occupies most of the page below the instruction.

Option 9: “May the Force Be With You”



Instructions:

You learned how to identify and describe the changes in *position*, *direction*, and *speed* of an object when acted upon by an unbalanced force. You’ve calculated average speed using distance and time measurements and graphed changes in motion.

- Review the terms you learned using the [“Changes in Force and Motion Picture Vocabulary”](#).
- Design creative questions about things like; knowing the difference between a balanced and unbalanced force, measuring force, calculating speed, and graphing changes in motion.
- Create a 20 question Kahoot: “May the Force Be With You”!
 - Go to kahoot.com and log in with your Google Account.
 - After you log in, click, “Create” and follow the prompts on the screen to begin designing your game!

Share the link to your Kahoot here:

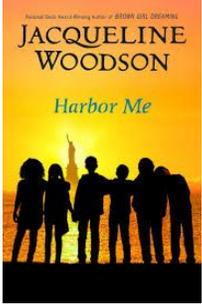
Grade 6 - ELA

For Parents

- Check that your child has completed all previous work.
- Help your child choose and complete tasks from the chart below.

For Students

- Each week, choose 3 of the following tasks to complete.

<p>1. Read a chapter of a book or a news article.</p> 	<p>2. Think about the following statement:</p> <p>Young people today are different from young people of the past.</p> <p>List three reasons young people today are different from young people a long time ago.</p>	<p>3. Download SoraApp to your phone and use your student email to sign up.</p>  <p>Read anything you choose for 20 minutes.</p>
<p>4. Write a story with an imaginary character. Be sure to include a theme, or message that we all should learn.</p>	<p>5. Get a library card! Visit houstonlibrary.org and get a MY Link card or request your current card number for ebooks. Link your card to your SoraApp for more book choices.</p>	<p>6. Write a step-by-step guide explaining "how-to" do something (i.e. make a snack, drink/dessert, use an app, etc.)</p> <p>Include illustrations and clear instructions.</p>
<p>7. Use vocabulary.com or a dictionary to look up the following words. Words with a * have multiple definitions.</p> <ul style="list-style-type: none"> • verify • vindicate • express * • tentative • drastic 	<p>8. Read about a famous or very successful person. Write a letter after learning more about them.</p> 	<p>9. Write a review about something you saw on TV or YouTube. Why should people watch it? Make sure to summarize without giving away the ending. Then explain why people should watch it.</p> 

Grade 6 - Social Studies

For Parents

- Check that your student has completed all previous work.
- Help your student choose and complete tasks from the Mind Mapping activity.
- The final step of the task requires students to respond in writing on a separate paper, Word document, or Google Doc.

For Students

- Open the [Mind Map](#).
- On a blank sheet of paper, re-create a Mind Map — drawing only the shapes.
- For each of the circles on your Mind Map, select one choice from each to complete, and write your responses around that circle.
- Use what you have completed for each circle to help you respond to the Essential Question. Write your response on a separate sheet of paper, Word document, or Google Doc.