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TEACHING & LEARNING

Teaching and Learning

Elementary

Fifth Grade
At-Home **Resources**

Online or screen time resources Offline/no screen time resources

MATH RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Shepard Software www.Sheppardsoftware.com	This site has a variety of online games for students to practice key skills for each grade level. If the game will not load, click on the puzzle piece to load adobe flash.
Math Playground www.mathplayground.com	This site has a variety of online games for students to practice key skills for each grade level.
ABCYA https://www.abcya.com/games/category/math	A variety of online games for students to practice key skills. The games are listed by grade level.
Greg Tang Math https://gregtangmath.com/	Variety of games, interactives, and resources for students to build a strong foundation in numeracy in the elementary grades
Fun Brain https://www.funbrain.com/	A variety of online games for students to practice key skills. The games are listed by grade level.

MATH RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY) 
US Department of Education "Help Your Child Learn Mathematics" has numerous activities with household items labeled by grade level. These activities focus on key numeracy skills that kids need to practice throughout their elementary math years.
Determine if numbers are prime or composite. Cut numbers from the newspaper and sort them by prime and composite numbers.
Add or subtract whole numbers, fractions, and decimals (to the thousandths place).
Multiply numbers up to a 3-digit by a 2-digit (if decimals, only to hundredths place). Roll dice or flip over cards to create a 3-digit number and a 2-digit number, multiply them and check with a calculator.
Divide numbers with a 4-digit dividend and 2-digit whole number divisor (if decimals, only to hundredths place). Roll dice or flip over cards to create a 4-digit number and a 2-digit number, divide them and check with a calculator.
Go on a scavenger hunt for different 2D shapes. Name, describe, and draw the objects. (e.g. -The TV is a rectangle; it has four sides, four corners, and two sets of parallel lines.)
Hand2Mind At Home Learning Activities https://www.hand2mindathome.com/ Provides printable lessons and activities to do with students. Lessons include a corresponding video for the skill or topic.

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ELA RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Storyline Online www.Storylineonline.net	Listen to actors read their favorite stories aloud
Digital Resources for Fort Bend ISD Elementary Students www.fortbendisd.com/digitalresources	Websites with texts, videos, and information about all content areas
Unite for Literacy www.uniteforliteracy.com	Digital library of children's books
Abcya.com www.abcya.com	Educational games for students
Helping Your Child Learn Each Content https://www2.ed.gov/parents/academic/help/hyc.html	U.S. Department of Education provides booklets to give parents the skills to work with their students in each content area
Read Wonder Learn https://www.katemessner.com/read-wonder-and-learn-favorite-authors-illustrators-share-resources-for-learning-anywhere-spring-2020/	Kate Messner, author and former teacher, has created a collection of favorite authors and illustrators reading their books aloud
Fort Bend County Libraries https://www.fortbend.lib.tx.us/ Read Write Think Trading Card Creator	The Fort Bend County Library system has a variety of on-line resources for families including digital book check-out and databases for research. They are also offering "curb-side pick-up" of requested library items during this time. After reading a text, choose a character, setting, or event to present on the "trading card." You can even use real people and places that you've researched on these digital cards, as they offer a variety of formats.
Make Beliefs Comix https://www.makebeliefscomix.com/	Children create online comics by adding characters, settings, and dialogue boxes.
MyON	e-books for independent reading. Accessed through 1Link.

ELA RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)
Encourage children to read daily from books they want to read, even if they appear too easy or difficult. Keep reading fun rather than a chore.
Encourage children to write daily about topics of their choice.
Read a chapter book aloud to your child of any age. You may want to share favorite books from your childhood.
Start a mini book club with your child. If you have one copy of a book, each read the chapter(s) on your own, then come together to talk about it.

Have children record themselves reading on a computer or phone.
Encourage children to research a topic in which they are interested. They may follow a simple research cycle of asking questions, finding resources, recording information, formulating new questions, putting the information together to share with an audience, and finally sharing their new learning with others. Students may choose to share their research in a variety of ways, such as digitally, making a poster, or writing a report.
Have children keep a daily log of the learning activities they are doing each day, perhaps rating themselves or reflecting on how well they did, and setting goals for the next day.

<table>
<tr><th colspan="2">SCIENCE RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)</th></tr>
<tr><th>Link</th><th>Description/Directions/Explanation</th></tr>
<tr><td>Mystery Science Video: How Deep Does the Ocean Go?
https://bit.ly/3a20Hlj</td><td>• Watch Mystery Science Video: How Deep Does the Ocean Go?
• As you watch the video, organize the information using the data table below:
<table><tr><th>Characteristic</th><th>Description</th></tr><tr><td>Ocean Floor</td><td></td></tr><tr><td>Animals</td><td></td></tr></table>• Write a paragraph explain how sound energy helps scientists know how deep the ocean is.</td></tr>
<tr><td>Mystery Science Video: How Do Things Glow in the Dark?
https://bit.ly/3deOonQ</td><td>• Watch Mystery Science Video: How Do Things Glow in the Dark?
• As you watch the video, organize the information using the data table below:
<table><tr><th>Things that Glow</th><th>Why Does it Glow?</th></tr><tr><td>Glow Stick</td><td></td></tr><tr><td>Organisms</td><td></td></tr><tr><td>Glow in the Dark Stars</td><td></td></tr></table>• Watch the YouTube Video: The Great Picnic Mix Up: Crash Course Kids #19.1
• Think of the mixture used to make a glow stick. Create a list of mixtures (including solutions) that can be useful to people. Explain why your examples were considered mixtures or mixtures that are solutions.</td></tr>
<tr><td>Mystery Science Video: How Old is the Earth?
https://bit.ly/3a39xiy</td><td>• Watch Mystery Science Video: How Old is the Earth?
• Answer the question, what are clues that scientists can use to know how old the Earth is?
• Watch the YouTube Video: Weathering and Erosion: Crash Course Kids # 10.2
• Write a paragraph explaining how Weathering, Erosion, and Deposition change the surface of the Earth. Include illustrations.</td></tr>
<tr><td>Mystery Science Video: Why do the stars change with the seasons?
https://bit.ly/3b8sBfo</td><td>With this activity, you will study the Earth’s orbital movement around the Sun, as a means of seeing why the position of the stars change overtime. You will create a Universe-in-a-Box paper model that help you visualize the Earth’s yearly orbit around the Sun.</td></tr>
<tr><td>Mystery Science Video: How much water is in the world?
https://bit.ly/2vvsCef</td><td>With this activity, you will use estimation and graphing to discover the surprising difference in the amounts of fresh and salt water on Earth.</td></tr>
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<tr>
<td>Mystery Science Video: When you turn on the faucet, where does the water come from?
https://bit.ly/2WpUgEL</td>
<td>In this activity, you will construct an explanation about a surprising phenomenon: the existence of underground water. You will need to evaluate the features of the landscape, plants in the area, and clues from the soil and then decide the best place to dig a well.</td>
</tr>
<tr>
<td>YouTube Video: M.E.L.T.S
https://bit.ly/3d4605w</td>
<td>

Watch the video M.E.L.T.S Forms of Energy
As you watch the video, organize the information using the data table below:

<table>
<tr><th>Forms of Energy</th><th>Description</th><th>Examples</th></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
</table>

Find different objects around your house that use energy. Make a list of them and identify what type of energy the object uses and produces. Organize your list in the data table below:

<table>
<tr><th>Object</th><th>Energy Used</th><th>Energy Produced</th></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td></tr>
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<tr>
<td>Solar Schools: Type of Energy
https://bit.ly/2U1uNj7</td>
<td>

Read the passages about each type of energy. Be aware! This website mentions other types of energy that you will learn in 6th grade and beyond. It is OK if you want to read about them, but make sure you concentrate in the following types first: Mechanical Energy (Motion Energy), Electrical Energy, Light Energy, Thermal Energy, and Sound Energy.
After reading about each type of energy complete the following questions. You will need to think about possible advantages and disadvantages of each type of energy.

<table>
<tr><th colspan="2">How is this type of energy generated?</th></tr>
<tr><td colspan="2"></td></tr>
<tr><th>Advantages</th><th>Disadvantages</th></tr>
<tr><td></td><td></td></tr>
</table>
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</tr>
<tr>
<td>Scholastic Study Jams video: Scholastic Study Jams</td>
<td>

Show the Scholastic Study Jams video: Light Absorption, Reflection, and Refraction

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</table>

<table>
<tr>
<td>video: Light Absorption, Reflection, and Refraction
https://bit.ly/3bdpKSJ

Bending Light Simulation
https://bit.ly/2Qr9Lbo</td>
<td>

After showing and discussing the video, use the Bending Light Simulation. Do not focus on the many controls - just demonstrate the angles for refraction through different materials and the prism. You can change the material at the bottom to water and glass, and discuss some of the examples that were in the video.
Create diagrams showing how light behaves when it strikes an opaque and transparent objects.

</td>
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<tr>
<td>YouTube Video: Earth's Rotation & Revolution: Crash Course Kids 8.1
https://bit.ly/3a6gnny</td>
<td>

Watch the YouTube video: Earth's Rotation & Revolution: Crash Course Kids 8.1
As you watch the video, organize the information using the data table below:

<table>
<tr><th>Earth’s Movement</th><th>Description</th></tr>
<tr><td>Rotation</td><td></td></tr>
<tr><td>Revolution</td><td></td></tr>
</table>

Create one illustration or diagram that shows the Earth’s rotation. Create another illustration or diagram that shows the Earth’s revolution.

</td>
</tr>
</table>

SCIENCE RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)
Design an experiment where they test salt, sugar, baking soda, and juice into rubbing alcohol and vinegar. Create a report that includes a question, variables, hypothesis, materials, procedures, data, and conclusions. Use the Lab Report Template to complete your experiment. See example of a completed lab report here.
Design an experiment to test the density of a can of regular Coke and a Diet Coke. You will need a container with water to observe what happens with the cans of soda. Create a report that includes a question, variables, hypothesis, materials, procedures, data, and conclusions. When creating your report, read the volume and mass printed in each can. Make sure that in your conclusion you describe the relationship between mass and volume and how it affects how the cans float.
Design an experiment to observe if sugar dissolves faster in cold water or hot water. Create a report that includes a question, variables, hypothesis, materials, procedures, data, and conclusions.
Design an experiment that test the force of friction of an object. You will need an object that can roll such a toy car or a ball. You will also need surfaces with different textures such a grass and a smooth table (you can change the texture of a table by placing a towel on it) Create a report that includes a question, variables, hypothesis, materials, procedures, data, and conclusions

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SOCIAL STUDIES RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Online Map Quiz Games https://online.seterra.com/en/vgp/3003	This website is good practice for locating the 50 states. In addition, there are map games on the capitals, major cities, rivers, etc. Students can quiz themselves and then track their results to measure progress.
iCivics Games https://www.icivics.org/games	This is a great website that has many fun and educational games related to the branches of government, citizenship, and the Bill of Rights. Games that closely relate to learning in 5th grade are "Do I have a Right?", "Branches of Power", and "Executive Command".
Maps101 www.maps101.com	Maps101 has several maps of our state, country, and world. Students can create their own questions to practice interpreting them. Maps101 also has several games to practice using a compass rose such as Uncle Sam's Farm.
Digital Resources for Fort Bend ISD Elementary Students www.fortbendisd.com/digitalresources	Websites with texts, videos, and information about all content areas

SOCIAL STUDIES RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)
Practice map skills by creating a map of a make-believe place or even a map of their house, school, or community. On their map, they should include map elements such as a compass rose, scale, legend, and a grid system. After they complete their map, they can create their own questions related to their map and then answer them.
Make a timeline of major events in United States history. On the timeline, students can add about 10 major events, draw a picture representing each event, and write a description with the year that event took place.
Start a mini book club with your child about a historical figure. If you have one copy of a book, each read the chapter(s) on your own, then come together to talk about it.
Encourage children to research a historical topic in which they are interested. They may follow a simple research cycle of asking questions, finding resources, recording information, formulating new questions, putting the information together to share with an audience, and finally sharing their new learning with others. Students may choose to share their research in a variety of ways, such as digitally, making a poster, or writing a report.

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TECHNOLOGY APPLICATIONS RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Animate your name with Scratch!	**Coding:** Students can use an online coding tool, Scratch to build a project. This project lets students code and animate their name. Parents, you will have to create a free Scratch account if your child would like to save their work.
Create a Chase Game in Scratch!	**Coding:** Students can use an online coding tool, Scratch to build a project. This project lets students code and create a game in which an animal chases food. Parents, you will have to create a free Scratch account if your child would like to save their work.
Friend or Fake Friend or Fake Activity Cards Digital Passport Games	**Digital Citizenship:** Watch "Friend or Fake." The parent then reads these actions and the student answers which one raises a "red flag" for danger (Link 2). Play Digital Passport games for more online safety tips. (Link 3)
https://studentreportinglabs.org/archived-tutorials/ https://www.wevideo.com/academy	**Digital Media:** Create your own newscast about what is happening in your neighborhood. Use these tutorials on the left to help you improve your video skills. You can edit your film using WeVideo (In Schoology tools on the left in any course) or another video editing software.
https://bit.ly/2UfTp6Q	**Project Based Learning (PBL)** Project ideas that cover a variety of STEAM subjects. (Parents register for free to access projects)

TECHNOLOGY APPLICATIONS RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)
Have students storyboard out a writing prompt or scenario that could eventually turned into a multimedia project (WeVideo, Powerpoint, etc.)
Graph Paper Programming "Unplugged" Activity – Parents you will need to download and print off the resources from https://curriculum.code.org/csf-19/coursed/1/
Build your own robot or robots using a variety of resources. (ie: toilet paper rolls, cardboard boxes, etc.) Be as creative as possible!
Build a bridge that will support different amounts of weight.

Build a catapult launcher using popsicle sticks or plastic spoons. Have it launch items such as cotton balls or marshmallows. If possible, have students measure the distance the item was launched.

EXTENSION RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)		
Name of Site and Link	**Description/Directions/Explanation**	**Grade Level**
Todd Stanley Projects and Enrichments https://www.thegiftedguy.com/resources	Todd Stanley provides a series of fun and engaging resources for free! The projects and activities are for a wide variety of students and provide exciting learning opportunities designed to extend student thinking.	Grades 1 and up
Dingbat Puzzles https://www.quizmasters.biz/DB/Pic/Dingbats/Dingbats.html	These picture puzzles are quick and fun. Try to guess the well know phrase shown in the drawing.	Grades 2 and Up
Wonderopolis https://www.wonderopolis.org/	Wonderopolis provides over 2000 different "wonderings" that students can explore and discover through inquiry. Students can search by content or choose a topic of interest.	Grades 3-5
Fractions Talks http://fractiontalks.com/	A sweet garden of visuals for Nat Banting to kick start discourse with Fraction-Geometry-Algebraic Thinking connections out the WAH-ZOO!	Grades 3-5 Math
Play Monster https://www.playmonster.com/brands/set/	SET, Quiddler, and Karma DAILY online games to challenge the whole family. Tutorial videos on how to play are super easy to understand to get started quickly! Perfect for a morning warm-up of the brain!	Family Games

EXTENSION RESOURCES (NO SCREEN TIME OR NO TECHNOLOGY)	
Description	**Grade Level**
Solve My Puzzle – create a physical puzzle using craft supplies or household items that requires a solution or solutions! Is it a pattern? It is a maze? Does it involve pictures? Is it a riddle? Are there clues? Don't forget to name your puzzle and create rules or directions if necessary. Can you stump your family members?	3-5
Post Office Time Machine– Create a post office in your home that serves as a time machine to the past. Write to historical figures that have been involved in events that you would change. Instead of telling them why you wouldn't make the decisions they made, create an informational letter that would convince them to act in a different manner. Justify your course of action then create and describe an alternate future based on the new events. Tell them how it would directly impact your life. Find a way to show these figures by sending packages through the Post Office Time Machine!	3-5
Germ Free Olympics – Using only items in your home, develop a set of competitions that are germ free. Analyze how a competition can take place without a transfer of germs. Devise a scoring system, names for your games, rules, and judges. How many germ-free competitions can you invent AND who will win the gold?	3-5