Elementary

Fourth 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.
Compare and order numbers using <, >, = up to 1,000,000,000. (e.g. - Students could find numbers in the in Newpapers, financial articles, etc. to compare.)
Go on a scavenger hunt and locate right, acute, obtuse angles, parallel lines, and perpendicular lines. Students can draw the angles and estimate the measures of the angles.
Using a magazine, newspaper, or coloring book, draw lines of symmetry of pictures.
Create your own multiplication or division story problem. Students can use these problems to practice the multiplication and division.
Divide up to a 4-digit dividend by a 1-digit divisor, including remainders. Provide word problems for students where they would interpret the remainder.
Multiply up to a 4-digit by a 1-digit number or a 2-digit by 2-digit number.
Add and subtract whole numbers and decimals (to the hundredths place). Practice with money and balancing a budget. Students can use bills and coins to help them to determine solutions.
Discuss intervals of time between things scheduled at home. (e.g. How much time passed between when you started reading a book and when you finished?)
Play a board game – Chess, Checkers, Blockus, Set, Yahtzee, Othello, Mastermind, Racko, Prime Club, Farkle, etc.
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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TEACHING & LEARNING

Teaching and Learning

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/	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.
Read Write Think Trading Card Creator http://www.readwritethink.org/classroom-resources/student-interactives/trading-card-creator-30056.html	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 out-loud 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>Balancing Act Simulation
https://bit.ly/2IWYTOz</td><td>With this simulation you will learn how objects of various masses can be used to make a plank balance. You will be able to investigate how changing the positions of the masses on the plank will affect the motion of the plank.
Start with the Intro Simulation and get familiar with the tools. Investigate what happens when objects of different masses are placed on the plank. Observe what happens when you move the objects on the plank closer to the center or closer to the edge. Use the ruler tool to guide you.
Use the Balance Lab Simulation to practice and observe what it takes to balance both sides of the plank.
Show what you learned by using the Game Simulation
Write a paragraph describing the following:
What does it take to balance the plank?
How does the position of the object on the plank affect its balance?</td></tr>
<tr><td>Series and Parallel Circuits
https://bit.ly/2U0EGh5

Circuit Construction Kit: DC – Virtual Lab
https://bit.ly/2Qrnpvn</td><td>Watch the YouTube video: Series and Parallel Circuits
Use the simulation Circuit Construction Kit: DC – Virtual Lab to build circuits by using the different components available. Build at least 3 different series circuits and 3 different parallel circuits.
Using a blank sheet of paper, create a diagram of the circuits that you built and explain how they work.</td></tr>
<tr><td>YouTube Video: States of Matter for Kids
https://bit.ly/391HVJs</td><td>Watch the YouTube video: States of Matter for Kids
As you watch the video, organize the information using the data table below:
<table><tr><th>State of Matter</th><th>Shape</th><th>Volume</th></tr><tr><td>Solid</td><td></td><td></td></tr><tr><td>Liquid</td><td></td><td></td></tr><tr><td>Gas</td><td></td><td></td></tr></table>
Create a list of objects that you can find around your house that are solids, liquids, and gases. Explain why you decided to label them with each particular state of matter.</td></tr>
<tr><td>Science Experiments for Kids
https://bit.ly/2wih4LT</td><td>Science Experiments for Kids. Hands-on experiments that are a great way to enjoy the world of science. You may need some help from your parents to gather the materials for the experiments.</td></tr>
<tr><td>Virtual Field Trip – Houston Zoo
https://bit.ly/2U1AOMO</td><td>Learn about the different animals that can be found in the Houston Zoo. You can see live webcams of the animals to study their physical characteristics and behaviors.</td></tr>
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<td>Gravity and Orbits Simulation
https://bit.ly/3a2gS20</td>
<td>

Use the Gravity and Orbits simulation to understand the relationship of the movements of the Sun, Earth, and Moon system.
Click on the Model Simulation. Select the “path” check mark from the menu of options. Press play.
Select the different celestial bodies you want to see moving in space. Change the setting by manipulating the options in the menu.
Record your observations in the data table below:

<table>
<tr><th>Movements</th><th>Observations</th></tr>
<tr><td>How does the Earth move?</td><td></td></tr>
<tr><td>How does the Moon move?</td><td></td></tr>
</table>

Create a diagram that show how the Sun, Earth, and Moon move together in space.

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<tr>
<td>Yellowstone National Park Virtual Webcams
https://bit.ly/2WqdJ8k</td>
<td>Learn all about the different animals, plants, and geysers found at Yellowstone National Park. Enjoy the webcams available through this website!</td>
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<tr>
<td>Gases Intro Simulation
https://bit.ly/3baH4Yv</td>
<td>

Use the Gases Intro simulation to study gases with more detail.
Use the pump to add gas into the container.
Use the data table below to record your observations about how gases behave:

<table>
<tr><th>Action</th><th>Observation</th></tr>
<tr><td>Use the handle to open the top lid</td><td></td></tr>
<tr><td>Use the side handle to reduce the size of the container</td><td></td></tr>
<tr><td>Add thermal energy</td><td></td></tr>
<tr><td>Decrease thermal energy</td><td></td></tr>
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Note: You can use the tools of “width” and “stopwatch” to collect more data for your observations.
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SCIENCE RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)

With the help of your parents, pour some water in a cup. Pour some oil in another cup. Observe the physical properties of the both liquids. Slowly pour the oil into the cup of water. Illustrate and describe what you observe. Did you create a mixture? If so, is this mixture a solution?

Study the data table below:

Object	State of Matter	Mass (g)	Volume (mL)	Sink or Float	Magnetic	Temperature (°C)
Steel	Solid	790	300	Sink	Yes	26
Syrup	Liquid	43	30	Sink	No	21
Plastic Boat	Solid	150	60	Float	No	20
Helium	Gas	178	22	Float	No	20
Rubber Ball	Solid	80	12	Sink	No	22

Write sentences comparing the different objects. Use the following sentence stem:
*Object 1 and Object 2 are similar because*_____. *They are different because*_____.

Design an investigation that tests the force of friction on 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, materials, procedures, data, and conclusions.

Gather some objects at home such as a pencil, coin, paperclip, cotton ball, buttons, etc. Observe their physical properties and describe them. Physical properties include color, shape, texture, mass, volume, temperature, magnetism, and the ability to sink or float.

Design an investigation to find how what are some common materials that dissolve in water. Create a report that includes a question, materials, procedures, data, and conclusions.

SOCIAL STUDIES RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Texas Regions https://tpwd.texas.gov/kids/about_texas /regions/	This interactive website goes into greater depth as it divides Texas into more regions. Students can read about each region and then draw their own map of Texas. On their map, they can include pictures and descriptions of each region.
Interactive Texas History Timeline https://www.thestoryoftexas.com/discover/texas-history-timeline	This interactive website from the Bob Bullock Museum in Austin covers all of Texas history. Students can first read over the major events. Next, they can pick out 5 – 10 of what they believe are the most important events and then create a timeline. On their timeline, they should also include a description and draw a picture.
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.
Start a mini book club with your child about a historical figure in Texas. 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 about Texas that they are interested in. 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.

TECHNOLOGY APPLICATIONS RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)	
Link	**Description/Directions/Explanation**
Sequencing in Mazes https://studio.code.org/s/coursee-2019/stage/1/puzzle/1	**Coding:** Students can learn to code while working through a series of puzzles.
Imagine a World https://scratch.mit.edu/projects/editor/?tutorial=imagine	**Coding:** Students can use an online coding tool, "Scratch" to build a project. This project lets students code and create a story. Parents, you will have to create a free Scratch account if your child would like to save their work.
Terrible Text http://bit.ly/2Wqr7ZT **Cyberbullying Scenarios** http://bit.ly/2wkP5ew **Digital Passport Games** http://bit.ly/2WqDyFd	**Digital Citizenship:** Watch "Terrible Text." Read the cyberbullying scenarios and decide which ones you would ignore, save, or tell. Play Digital Passport games for more online safety tips.
Improve Your Video Editing Skills http://bit.ly/2WpwAA6 **WeVideo** http://bit.ly/2WpwAA6	**Digital Media:** Create your own newscast about what is happening in your neighborhood. Use these tutorials 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.
PBL Works http://bit.ly/2UjozdB	**Project Based Learning:** Project Based Learning ideas that cover a variety of STEAM subjects. (Parents, you will need to register for a free account to access projects.)

TECHNOLOGY APPLICATIONS RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY)
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/
Have students storyboard out a writing prompt or scenario that could eventually turned into a multimedia project (WeVideo, Powerpoint, etc.)

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	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	These picture puzzles are quick and fun. Try to guess the well know phrase shown in the drawing.	Grades 2 and Up
Wonderopolis	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	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	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