



High School



Mathematics At-Home **Resources**



Online or screen time resources



Offline/no screen time resources

MATH RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)				
Name of Site and Link	Description/Directions/Explanation	Course		
Name of Site and Link	Watch a movie – These movies are about math, mathematicians or include how math is used in our everyday lives. Many are based on true stories. As you watch the movie think about where you see math applied in the context of the movie and/or what impact does mathematical understanding have on the characters in the movie. October Sky (PG) Back to the Future (PG) Hidden Figures (PG) Queen of Katwe (PG) Stand and Deliver (PG) Apollo 13 (PG) Moneyball (PG-13) A Beautiful Mind (PG-13) The Man Who Knew Infinity (PG-13) The Martian (PG-13) Proof (PG-13) The Imitation Game (PG-13) Donald in Mathmagic Land (free on youtube)	All HS Math courses		





Youcubed.org Online Student Course https://www.youcubed.org/online-student-course/	How to Learn Math is a free class for learners of all levels of mathematics. There are 6 sessions, the first three are approximately 10 minutes long and the last three approximately 20 minutes long. Main concepts to learn in this course: • Knocking Down the Myths About Math • Math and Mindset • Mistakes and Speed • Number Flexibility, Mathematical Reasoning, and Connections • Number Patterns and Representations • Math in Life, Nature and Work	All HS Math courses
NRich Interactive Math Games https://nrich.maths.org/ 9465	Interactive math games. Includes topics such as angles, factors, ratios, linear graphs, integers, and vectors. Also includes problems solving, number sense and strategy games.	All HS Math courses
KenKen Math Puzzles http://www.kenkenpuzzl e.com/	Online KenKen Math number puzzles. You can choose the size of the puzzle and the operations used.	All HS Math coures
Solve Me Puzzles https://solveme.edc.org/	Includes equation mobiles, number sense riddles and number puzzles.	All HS Math courses
Math Pickle https://mathpickle.com/ organized-by-grade/	MathPickle.com is a free online resource of original mathematical puzzles, games and unsolved problems for K-12.	All HS Math courses
Math PhET Simulations https://phet.colorado.ed u/en/simulations/categor y/math	PhET simulations provide fun, interactive research-based simulations for use in K-12 and college STEM education.	All HS Math courses





Cool Math https://www.coolmathga mes.com/	Interactive math games. Includes logic, number sense, and strategy games.	All HS Math courses
IXL Texas Math https://www.ixl.com/sta ndards/texas/math	Math practice that feels like play in the form of games and other fun activities.	Algebra 1, Algebra 2, Geometry, Pre- Calculus
Algebra Pro - Complete Workbook with ShowMe Lessons (for ipad only) https://tinyurl.com/qvg6 ds6	This app includes over 100 practice questions with instant "ShowMe" lessons: if you get stuck on a problem, just tap "ShowMe" and see a step-by-step animation of how to solve the problem, instantly.	Algebra 1
	Watch a movie – These movies are about math, mathematicians or include how math is used in our everyday lives. Many are based on true stories. As you watch the movie think about where you see math applied in the context of the movie and/or what impact does mathematical understanding have on the characters in the movie. October Sky (PG) Back to the Future (PG) Hidden Figures (PG) Queen of Katwe (PG) Stand and Deliver (PG) Apollo 13 (PG) Moneyball (PG-13) A Beautiful Mind (PG-13) The Man Who Knew Infinity (PG-13) The Martian (PG-13) Proof (PG-13) The Imitation Game (PG-13) Donald in Mathmagic Land (free on youtube)	All HS Math courses



MATH RESOURCES (NO SCREEN TI	ME OR NO TECHNOLOGY)	
Plan a home improvement project - determine what materials, the amount of materials you would need, and how much the project would cost. For example: • Painting a room	All HS Math Courses	
 Building a desk, bookcase, etc. Putting in new flooring Building a garden 		
Play a card game – Solitaire, Rummy, Hearts, Speed, etc. Directions for over 40 games can be found on the following link: https://playingcarddecks.com/blogs/all-in/40-great-card-games-for-all-occasions	All HS Math Courses	
Play a number puzzle – KenKen, Soduko, Kakuro, Numbrix • Printable puzzles can be found on the following sites: • https://www.puzzlesandbrains.co m/index.php • https://parade.com/numbrix/	All HS Math Courses	
Plan a business For example: A grass mowing business where you are going to mow the neighbors' yards. How much will you charge? Will your cost be based on the size of the yard? Create a plan.	All HS Math Courses	



Teaching and Learning

Play a board game – Chess, Checkers, Blockus,	All HS Math Courses
Set, Yahtzee, Othello, Mastermind, Racko, Prime	
Club, Farkle, etc.	
Plan a meal – you could just plan the meal or plan and cook the meal	All HS Math Courses
plan and cook the mean	
Find a recipe, and double or half the recipe	