

Math Project Resources

of all sorts

CHERYL TRADEWELL JUL 24, 2019 09:04AM

Apps & Interactives

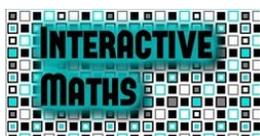
Interactive Maths

Tons of different things here

Interactive Maths - The Interactive Way to Teach Mathematics

Interactive Maths is a site with a mixture of activities for teaching and learning maths, all of which are based around using technology.

INTERACTIVE MATHS - THE INTERACTIVE WAY TO TEACH MATHEMATICS

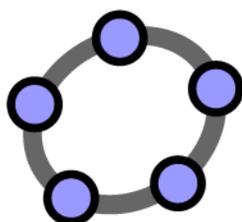


Geogebra

GeoGebra | Free Math Apps - used by over 100 Million Students & Teachers Worldwide

Get our free online math tools for graphing, geometry, 3D, and more!

GEOGEBRA



Math Sims

Simulations

By converting our sims to HTML5, we make them seamlessly available across platforms and devices.

Whether you have laptops, iPads, chromebooks, or BYOD, your favorite PhET sims are always right at your fingertips. Become part of our mission today, and transform the learning experiences of students everywhere!

PHET



Amazing Tools!

Gapminder

Gapminder

We have tested thousands of people and they were systematically wrong about all this. Upgrade your worldview. Gapminder is an independent educational non-profit fighting global misconceptions. FEATURED BY: The UN's SDG Moments 2020 was introduced by Malala Yousafzai and Ola Rosling, president and co-founder of Gapminder.

GAPMINDER

Desmos

Desmos | Beautiful, Free Math

Desmos offers best-in-class calculators, digital math activities, and curriculum to help every student love math and love learning math.

DESMOS



Gizmos

ExploreLearning Gizmos: Math & Science Simulations

Gizmos are interactive math and science simulations for grades 3-12. Over 400 Gizmos aligned to the latest standards help educators bring powerful new learning experiences to the classroom. Explore the Library The Exploratorium is a science museum in San Francisco famous for its hands-on, interactive approach.

EXPLORELEARNING : GET HANDS-ON, MINDS-ON IN MATH AND SCIENCE



Check out Photo Math

Photomath - Scan. Solve. Learn.

Photomath is the #1 app for math learning; it can read and solve problems ranging from arithmetic to calculus instantly by using the camera on your mobile device. With Photomath, learn how to approach math problems through animated steps and detailed instructions or check your homework for any printed or handwritten problem.



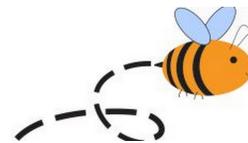
PHOTOMATH

√Possibly Useful

Have enough in H5P

Top Four Tools for Crafting Interactive Content in 2018

To craft compelling interactive content, you need tools to add interactivity. We listed a few tools that are easy to use and have plenty of features for you to get started. The good thing about millennials is that they are never satisfied.



MARTECHADVISOR

Illustrative Mathematics

Illustrative Mathematics

Providing instructional and assessment tasks, lesson plans, and other resources for teachers, assessment writers, and curriculum developers since 2011.



ILLUSTRATIVE MATHEMATICS

√Drag & Drop

In H5P in Wordpress for creating

Drag and drop question

H5P empowers everyone to create, share and reuse interactive content - all you need is a web browser and a web site that supports H5P.



H5P

National Library of Virtual Manipulatives

National Library of Virtual Manipulatives

A digital library containing Java applets and activities for K-12 mathematics



USU

√How to Make Good Videos

https://flippedmathstudy.net/2020/03/11/tips-for-using-videos-to-teach-math-remotely/?twitter_impression=true

Online Interactive Tools

Illuminations

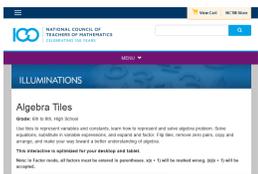
NCTM



NCTM Illuminations

Algebra Tiles

In Solve and Substitute, vertical lines indicate "is equal to" (=). In Expand and Factor, the large area is the product of the top and left areas, as in a standard multiplication table. Add tiles to the workspace from the bottom left bank. The value of each tile is indicated.



NCTM

√Article to check

13 Interactive Content Examples That Will Engage Your Audience

Everyone wants to get ahead of the marketing game. It's understandable - you want to beat the competition, attract more attention, and sell more products or services. Interactive content can help you achieve those goals. While interactive content has been around for some time, it's only recently begun to gain serious traction among marketers.



COSCHEDULE BLOG

√Articulate

Build Highly Interactive E-Learning Courses with Storyline 360

Develop interactive training courses for any device with Storyline 360, one of the apps in Articulate 360. Storyline's intuitive features make it simple to create richly interactive e-learning.

ARTICULATE



CloudTrail-Tracker - Home

CloudTrail-Tracker is a serverless platform that entirely runs on your AWS account and provides fast insights on the multi-tenant use of an AWS account by several AWS IAM users. CloudTrail logs are automatically ingested in DynamoDB through AWS Lambda.

UPV



√Explain Everything

Pricing

INDIVIDUALS Details All Free Plan features + Unlimited projects Unlimited slides 10 GB Explain Drive storage Unlimited recording Email support GET INDIVIDUAL PLAN GET INDIVIDUAL PLAN TEAMS \$11.99 Per person, per month Starts at 2 or more \$95.99 Per user, per year Starts at 2 or more Details All Individual Plan features + Company account Team shared folders Advanced reporting Advanced security & permissions User management tools Pooled storage Premium support Purchase Team Plan Purchase Team Plan comparison A solution that scales with your company unique needs.

EXPLAIN EVERYTHING



√Augmented Reality Apps for Education

32 Augmented Reality Apps for the Classroom

Educational iPhone and iPad augmented reality apps for use with students in the classroom, such as Aurasama, Fetch! Lunch Rush, Word Lens, Layar, etc.

TEACHTHOUGHT



√Mindmaps

The Best Mind Mapping Software in 2019

Mind mapping is a creative exercise that begins when you write down a central idea or theme, then draw lines that branch out into new "nodes," each with a new word or idea that's related to the first. Simple enough. And you can certainly mind map on a blank piece...

ZAPIER



√Quizlet or Kahoot

√Storyboard

Storyboard That: The World's Best Free Online Storyboard Creator

Create storyboards with our free storyboard software! Filmmakers, teachers, students, & businesses all love using Storyboard That to create storyboards & comics online

STORYBOARD THAT



√Created Investigations

<https://galileo.org/math-investigations/>

√Hypothes.is Commenter

CROWDLAAERS

Explore social learning analytics associated with Hypothesis annotation. Enter a URL and click Search to visualize collaborative annotation activity associated with a single document, or enter your Hypothesis API token to access analytics associated with Group activity across multiple documents.

CROWDLAAERS



√Active World

ActiveWorlds

Welcome to Activeworlds, a 3D platform for creating anything you can envision, inside a public free universe with hundreds of worlds, millions of objects, and a dedicated and friendly community.

ACTIVEWORLDS.COM

√Interactive presentations

Interactive presentation software

Interact with your audience using real-time voting. No installations or downloads required - and it's free!

MENTIMETER

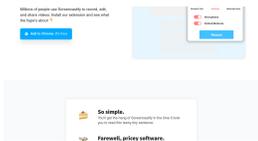


√Screen Capture

Screencastify

Screencastify is the #1 free screen recorder for Chrome. No download required. Record, edit and share videos in seconds. Videos autosave to your Google Drive, and can be published directly to YouTube.

SCREENCASTIFY



√Video Tools

How to Create Engaging Microlearning Videos for Your Online Course

Spread the loveMicrolearning is a unique aspect of eLearning. It focuses on teaching new information in bite-sized chunks. Microlearning is more than simply bite-sized training assets, though. It is focused and offers just the right amount of information necessary to help a learner achieve a specific, actionable objective.

THE TECH EDUCATE



√AI?



magpie | the capability you need with the content you already have

Meaningful learning recommendations, personalized for each employee. Stay ahead of the competition through skills development and culture change.

FILTERED

√VR Software

Meet | ENGAGE - VR Education and Corporate Training

Host live meetings and present in exciting virtual environments with employees, partners and customers located anywhere in the world including CPD sessions for a global audience. Broadcast your virtual conference, meet-up or private meeting while interacting with up to 36 people at any one time.



ENGAGE VIRTUAL REALITY EDUCATION & CORPORATE TRAINING. VR EDUCATION HOLDINGS PLC

Possible Tasks

Inquiry Tasks

youcubed

Tasks Archive - YouCubed

YOUCUBED



Mathalicious

real world problems

Mathalicious: Real World Math Problems

Real-world lessons from Mathalicious help middle and high school teachers address the Common Core Standards while challenging their students to think critically about the world. Featured Lesson How do viruses spread through a population? How much is Domino's really charging for pizza?



MATHALICIOUS

Open Middle

What's Open Middle? - Open Middle®

The name "Open Middle" might sound like a strange name for a website about math problems. However, it references a very specific type of problem we try to encourage here. Most of the problems on this site have: a "closed beginning" meaning that they all start with the same initial problem.



OPEN MIDDLE®

More Math Resources

Mainly videos

Mathematics

This hub features a variety of collections to assist teachers, students and parents in developing mathematical skills, concepts and understanding.



RESOURCE BANK

<https://www.map.mathshell.org/>

Spatial Reasoning and Thinking with models

Mathematics Assessment Project

The Mathematics Assessment Project is part of the Math Design Collaborative initiated by the Bill & Melinda Gates Foundation. The project set out to design and develop well-engineered tools for formative and summative assessment that expose students' mathematical knowledge and reasoning, helping teachers guide them towards improvement and monitor progress.



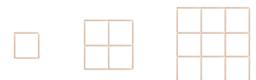
MATHSHELL

Nth term rules

Thinking with models

Visual Patterns

Click on a pattern to see a larger image and the answer to step 43. What is the equation?



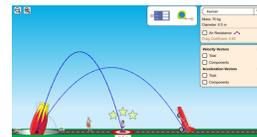
VISUAL PATTERNS

Cannon ball

<https://www.futurelearn.com/info/courses/maths-linear-quadratic/0/steps/12125>

Projectile Motion

Blast a car out of a cannon, and challenge yourself to hit a target! Learn about projectile motion by firing various objects. Set parameters such as angle, initial speed, and mass. Explore vector representations, and add air resistance to investigate the factors that influence drag.



PHET

Pirate Attack - Spatial Reasoning

<https://www.radford.edu/rumath-smpdc/Performance/src/Rachel%20Grzech%20-%20Pirate%20Attack.pdf>



Since the failure of the government of Somalia in the early part of the 21st Century, criminal gangs have been drafting fishermen along the Somali coast into piracy. The objective of the pirates is to take control of a ship full of cargo and hold it and its crew for ransom (a payment for release). When the criminal gangs receive the ransom money, the ship is released and the pirates are paid for their services. They then get back in their skills (small boats: see image to the left) and go find another ship to hijack.

One such attack took place in the early hours of April 1, 2010, when a pirate attack group (PAG) opened fire on the USS Nicholas (pictured below) in the middle of the Indian Ocean, about 570 nautical miles off the coast of Somalia (they obviously weren't the brightest pirates available, attacking a US warship with their tiny skills). Needless to say, this pirate attack was a failure! The pirates were captured and brought back to the United States to stand trial.

The Navy subsequently held a hearing to determine what happened during the encounter. One witness was on watch in the CIC (Combat Information Center, also called "Combat") when the attack happened. She said that she saw a pirate holding his AK47 at a 45 o angle pointing up towards the ship. She also stated the pirate appeared to be about 100 yards away from the ship. When the ship was inspected, a bullet hole



Honors Geometry Unit 7 The Case of the Failed Pirate Attack

PDF document

PADLET DRIVE

C-Books

Spatial Reasoning & Thinking with Models

M C Squared Project

The M C Squared project will design and develop an intelligent computational environment to support stakeholders from creative industries involved in the production of media content for educational purposes to engage in collective forms of creative thinking and working to co-design appropriate digital media.



MC2-PROJECT

√Sesamath

Numerical Reasoning Possibilities!

accueil - index

Avec ce site, Sésamath a pour ambition de proposer aux familles un maximum de ressources de tout type : cours, exercices, aides animées, QCM et devoirs pour s'entraîner mais aussi de l'entraînement au calcul mental, des jeux logiques...



MATHENPOCHE

snow Clearing - Spatial Reasoning

See email info

Use Google Science Journal

To collect data and graph it and check the data . . .

Taxes, Budget, Credit Card & Bank Account Fees.

Exploding Dots Investigation

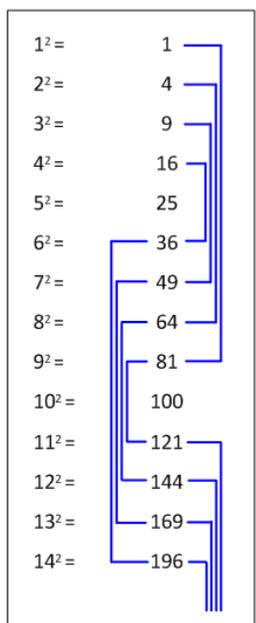
<https://gdaymath.com/courses/exploding-dots/>

√Indices

Indices inquiry - Inquiry Maths

The indices prompt is suitable for 11- and 12-year-old children, although it can be adapted for older students. either any students can be asked to give that explanation. The inquiry starts with students trying to understand the diagram.

INQUIRYMATHS



√Idea

online monopoly with everyone a different country with exchange rates that take a realistic percentage . . .

√Zum Wiki

Mathematik

Mathematik-digital (Lernpfade)

ZUM-UNTERRICHTEN



√Assorted Distance Learning Solutions

Math is paid stuff

Distance learning solutions

Below is a list of educational applications and platforms to help parents, teachers, schools and school systems facilitate student learning and provide social caring and interaction during periods of school closure. While these solutions do not carry UNESCO's explicit endorsement, they tend to have wide reach, a strong user-base and evidence of impact.

UNESCO



√BLM Resources

Black Lives Matter

When a scholarly publisher endorses the statement that Black Lives Matter, especially in the context of current societal tensions in the US and other countries, it needs to do more than just echo it.

SPRINGERNATURE



√Inquiry Guide

Inquiry Tools

C C NEW: Competency Assessment Framework (PDF download) Learner creates/co-creates a question or questions that are of a kind that will allow an inquiry or a quest to take place. (clarify teachers' role) Learner takes on early research based on starting questions. May discuss with teacher and/or other learners to help flesh out ideas.



LEARNINGSTORM

√Grow local



TEDxTC - Winona LaDuke - Seeds of Our Ancestors, Seeds of Life

Winona is an internationally renowned activist working on issues of sustainable development, renewable energy and food systems. She lives and works on the White Earth reservation in northern Minnesota. As Program Director of Honor the Earth, she works nationally and internationally on the issues of climate change, renewable energy, and environmental justice with Indigenous communities.

YOUTUBE

√freerice.com

√Info on Khan

Pros & Khans

A Teaching Khan-undrum The school that I currently teach as is a First Nations cultural school with a student population of just under 100 students. On the best of days, we have around 80 students in attendance, with many students frequently away for cultural reasons including ceremonies, hunting trips, or travel.



OPENED

√Open Ed Math - no longer

<https://new.assistsments.org/>

√Online Free Math Course

No Credit given

Open Course Resources: Log in to the site

Is this your first time here? To access the OCR courses, you can either log-in as a Guest or you can create your own account. Guest Access You are given access to read course content, but we don't keep track of which courses you have taken.



OPENSCHOOL

√Global Math Project

Home - Global Math Project

Over 20,000 teachers have used our exemplar curriculum to bring math joy to over 5 million students across the planet. Are you struggling to find time to fit in joyful math experiences? Are you tired of scouring the web for great math activities?



GLOBAL MATH PROJECT

√Kenya Ed Videos

Meet the... Kakuma Academy!

During the past weeks we launched the #Kakuma Academy and did something extraordinary. 100 teachers globally created free video lessons aligned to the new Kenyan curriculum: Science, Math and English. Refugee students will be able to learn on demand. This is also called Flipped Learning.



PROJECTKAKUMA

√Free Assessments

Formative Assessment Tools and Apps

Ongoing assessment is necessary for student success. These assessments provide data on our learners' progress and knowledge of the content. There are many different types of digital assessment tools and apps that allow teachers to quickly see what their students understand in a variety of ways through exit and entrance tickets, quizzes, student response systems, peer feedback, self-evaluation, graphic organizers, polls, and games.



TEACHERREBOOTCAMP

Courseware

The CEMC courseware materials feature lessons, interactive activities, enrichment challenges, and unlimited opportunity for practice with feedback. The courseware is online, free to use, and does not require registration. Start learning from a world-class group of educators today!



UWATERLOO

Possible Resources

<https://mathies.ca/>

Game Info

Various Game/tests

[Kahoot](#), [Quizlet](#), [Quizizz](#), [Gimkit](#), [purplemath](#), [Braineos](#), and [Badabing](#), [Blooket](#)

Assorted

Math Games

Math Games offers online games and printable worksheets to make learning math fun. Kids from pre-K to 8th grade can practice math skills recommended by the Common Core State Standards in exciting game formats. Never associated learning algebra with rescuing animals or destroying zombies? Time to think again!



MATHGAMES

Educational Games

Potentials - [MathChimp](#), [Purpose Games](#)
Elementary - [Arcademics](#), [Room Recess](#), [Sheppard Software](#), [Vedoque](#)

50 Sites & Apps for K-12 Education Games

Game-based learning is a great way to integrate technology into the classroom while engaging kids with real learning. This list covers a wide range of subjects, and many of these sites have educational portals that allow educators to track and monitor student progress.



TECHLEARNINGMAGAZINE

Formative

Formative

Formative Team enables teachers to collaborate and improve student progress. A Formative Team partnership not only grants all teacher premium features, but also provides 10 additional features designed to help teams of all sizes succeed. Schools and Districts can also add 5 custom integration features.



GOFORMATIVE

Mixed Resources

WIMS

Interactive lessons

WWW Interactive Multipurpose Server

Keywords: wims, mathematics, mathematical, math, maths, interactive mathematics, interactive math, interactive maths, mathematic, online, calculator, graphing, exercise, exercice, puzzle, calculus, K-12, algebra, mathématique, interactive, interactive mathematics, interactive mathematical, interactive math, interactive maths, mathematical education, enseignement mathématique, mathematics teaching, teaching mathematics, algebra, geometry, calculus, function, curve, surface, graphing, virtual class, virtual classes, virtual classroom, virtual classrooms, interactive documents, interactive document wimshomeabcd 4.20 Function calculator, for one-variable real functions: limits, integrals, roots...



UNIV-COTEDAZUR

Free Waterloo Stuff

√Math Games

KS2 Maths Invaders

New tablet-friendly version added 14th February 2018. Please let me know if you have any problems - support@mathsframe.co.uk Shoot the spaceship with the correct answer and dodge the incoming fire. A fun game to practise a wide range of key mathematical skills. There are over a hundred carefully differentiated levels linked to objectives from the new maths curriculum.



MATHSFRAME

7 Easy-to-Use Interactive Content Tools You Should Explore

This post originally appeared on HubSpot's Agency Post. To read more content like this, subscribe to Agency Post. Imagine that a couple of your friends convince you to give speed dating a try. "It'll be fun," they insist. The next thing you know, you're sweating your way through a seemingly never-ending carousel of two-minute dates.



HUBSPOT

√JavaScript Tutorial

JavaScript Tutorial

Well organized and easy to understand Web building tutorials with lots of examples of how to use HTML, CSS, JavaScript, SQL, PHP, and XML.



W3SCHOOLS

√Game Creation

Gamify Your Classroom

Why Games in the Classroom??? Using games for review and/or formative assessment is a great way to make learning fun and engaging....



SMORE

Text Resources

√Play a Game around concept?

Asteroids | Learning Games For Kids

A great way to build the foundation skills that today's elementary school curriculum requires. These learning games and songs are fun. These learning games teach important skills for preschool and elementary school kids. Children will themselves work to develop their focus and skills with these learning games.



LEARNINGGAMESFORKIDS

Magoosh

Magoosh Math - All About Math

All About Math
MAGOOSH MATH



√Article to check

Designing Interactive Online Course Activities

In the past two decades, there have been sweeping changes in the use of technology as a means of course delivery in colleges and universities. Whole programs of study are now offered entirely online. It has been difficult for much of the professoria...



SEEN MAGAZINE

BC Math

Resource pg too. 2008. most teacher links don't work. last link updated 2012. Last prof link may be useful.

Math Lessons

"The animations and visual effects in your lesson plans add more clarity and help improve understanding. Many of my students are benefiting from these tutorials." Math Teacher , Surrey School District



BCMATH

√Article to check

151 Our Words our Ways

- list of useful types of graphic organizers
- suggestions on how to set up individual study option
- self-evaluation strategies

PreUni Math Course

POK - Introduzione alla matematica per l'università: Pre-Calculus

Alfio Quarteroni è attualmente professore ordinario della cattedra di Modellistica e Calcolo Scientifico del Politecnico di Losanna; nel 2002 ha fondato il laboratorio MOX del Politecnico di Milano presso il quale ha ricoperto il posto di professore ordinario di Analisi Numerica; nel 2010 fonda MOXOFF (Società di Ricerca industriale) e MATHICSE (Istituto di ricerca al Politecnico di Losanna).

POK - MOOCS PORTAL OF POLITECNICO DI MILANO



Accueil

J3P, pour Parcours Pédagogiques Personnalisés, propose des activités sous forme de graphes dans lesquels l'élève suit son propre parcours en fonction de ses réponses à chaque nœud du graphe. C'est un projet de Sésamath.

SÉSAMATH



√Online Learning Resource

Learning To Learn Online - Simple Book Publishing

This book applies the JISC digital literacy framework to the Athabasca University MOOC, Learning to Learn Online. The book explores the digital literacies learners that need and will develop in order to complete the MOOC, examines specific learner profiles in relation to these literacies, and evaluates the effectiveness of the course through the lens of the Community of Inquiry (CoI) model.

BCCAMPUS



Online Texts from South Africa

Practise Maths & Science - Read Open Textbooks | Siyavula

Unlimited questions. Full solutions. Instant feedback. With Siyavula Practice, you CAN master Maths and Physical Sciences. Learn and master high school Maths and Physical Sciences by doing questions online. Throughout the year and at your own pace. We offer Maths Grades 8-12 and Physical Sciences Grades 10-12.

SIYAVULA



√Creating Inquiry Videos

Make Math Moments 3-Part Framework: Spark Curiosity, Fuel Sense-Making, Ignite Teacher Moves

Get kids leaning in to learn mathematics by building conceptual understanding and fluency to ensure success for all students.

MAKE MATH MOMENTS

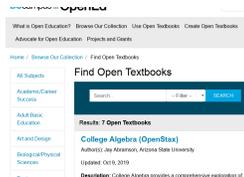


New ABE 11 Text open online

Find Open Textbooks

Browse Subjects Results: 306 Open Textbooks Author(s): Digital Education Strategies, The Chang School Updated: Nov 28, 2019 Description: Web Accessibility for Developers is a technical book aimed primarily at programmers. Learn how to develop accessible interactivity on the Web and gain expertise using WAI-ARIA, a W3C specification that enables optimal use of assistive technologies, like screen readers, when navigating the Web.

BCCAMPUS



√OpenEd

WordPress addons

Sandstorm

Students and educators deserve access to the best open-source web apps. With a few clicks, students and educators can enjoy 70+ open-source web apps, all pre-approved, security audited, and hosted within British Columbia on the OpenETC Sandstorm server at <https://apps.opened.ca> At <https://apps.opened.ca> users can enforce access control on each application.

OPENED



French Math Text

√569 Week 2 Resources

<https://www.oercommons.org>

<http://teacherrebootcamp.com/2019/12/01/stemday1/>

Home Page - Curriki
 Convert existing curriculum from static lessons to active, digital learning experiences or create digital learning experiences from scratch. Whatever works for you. CurrikiStudio combines all the essential mobile-first activities in one easy-to-use solution so you can transform your learning content into engaging digital learning.

CURRIKI



√Blog Marking Rubric

High School Open Readiness (formative assessment focus) and Open learning (summative assessment focus) Rubrics



Open Readiness & Open learning Assessment Rubrics by Verena Roberts is licensed under a Creative Commons Attribution 4.0 International License.

Verena Roberts - verenanz@gmail.com , twitter @verenanz

Open Readiness Assessment Rubric
 used for personal reflection of learning and peer feedback

| Indicators of | Emerging | Low | Medium | High |
|---|----------|-----|--------|------|
| Copy of Open Readiness & Open learning Assessment Rubrics by Verena Roberts | | | | |
| GOOGLE DOCS | | | | |

√Course on Accessible Design

Home
 This course will follow the Ontario Human Rights Commission and use person-first language. The terms "person with a disability", "persons with disabilities" and "people with disabilities" will be used in order to put the person before the disability. We acknowledge the use of identity-first language and note that some people prefer to use the term "disabled people".



HUMBER

√Virtual Reality

HandWaver - Immersive Mathematics in Rendered Environments - University of Maine

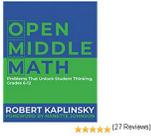


HandWaver is a gesture-based virtual mathematical making environment where learners at all levels can use their hands to act on mathematical figures directly, without mediating their intuitions through equations, keyboards, or mouse movements.

IMMERSIVE MATHEMATICS IN RENDERED ENVIRONMENTS

√Book

Open Middle Math: Problems That Unlock Student Thinking, 6-12
 Open Middle Math: Problems That Unlock Student Thinking, 6-12: Amazon.ca: Kaplinsky, Robert, Kaplinsky, Robert: Books



AMAZON

√Questioning Skills Ideas

10 Essential Resources for Building Your Learners' Questioning Skills
 Teachers are always on the lookout for ways to foster questioning skills in students. They are skills that serve us in school and in everything beyond it. Curiosity and questioning are what keep us interested and engaged in life.



WABISABLEARNING

√Jo Boaler Free course

How to Learn Math: For Students
 How to Learn Math is a free self-paced class for learners of all levels of mathematics. It combines important information on the brain with new evidence on the best ways to approach math effectively. Many people have had negative experiences with math.



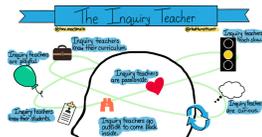
EDX

√Interactive Calendar

√Inquiry Posters

School Posters - Trevor MacKenzie

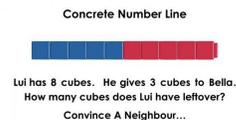
Download and print these helpful graphics from Dive into Inquiry to support adopting inquiry and strengthening personalized learning in your classroom. Thanks go to Rebecca Bathurst-Hunt for collaborating on these sketch notes and for bringing my vision to life. Follow her at @rbathursthunt for an inquiry in the kindergarten classroom perspective.



TREVOR MACKENZIE

Math Is Visual | Math Is Visual

This website was created to assist in building a better conceptual understanding of mathematics through the use of visuals. The images, videos and resources shared here are intended to help all teachers, parents and students understand that Math Is Visual and we should take every opportunity to teach it that way.



MATH IS VISUAL

√Online Courses

Open Course Resources: Log in to the site

Is this your first time here? To access the OCR courses, you can either log-in as a Guest or you can create your own account. Guest Access You are given access to read course content, but we don't keep track of which courses you have taken.



OPENSCHOOL

√Smart or Process?

The Problem with Telling Kids that they are "Smart"

May 25, 2019 - 9 minutes read Thank you to our school counsellor Mr. Broughton for being our guest blogger! His post is a good reminder of the impact well-intentioned praise has on our children. You're so smart. You're lucky to be so smart! Wow, what a smart kid you are!



WESTVANCOUVERSCHOOLS

√5Es Instructional Model

https://catlintucker.com/2020/03/designing-an-online-lesson/?fbclid=IwAR0iULOmIUSD6A9huwjKKgVXdP Ea4CbvnnY630ebq c-9F0nh14OQRD_kAo8

Tips for Designing an Online Learning Experience Using the 5Es Instructional Model

Covid 19 has educators and educational institutions worried about and preparing for possible school closures. What happens if students have to stay home for days or even weeks? How can we keep them learning remotely? What strategies and technology tools

| Engage | Your Task |
|---|--------------------|
| [Insert engaging prompt here] | [Insert direction] |
| Explore | Your Task |
| [Insert engaging resource for students to explore here] | [Insert direction] |
| Elaborate | Your Task |
| [Insert direction to help in a collaborative manner] | [Insert direction] |

CATLINTUCKER

√Faun's MS Curr

| | Warmup | Textbook | Assessments | Tasks | PoW | Problem-Solving |
|-----------|--|--|--|---|---|--|
| resources | visual patterns and math talks | Illustrative Mathematics (IM), Open Up Resources (OUR) | from same source as textbook, make edits and create my own as needed | MARS, Illuminations, Desmos, GeoGebra, 3-Acts, Mathalicious | NCMT (formerly POW) from the Math Forum | various |
| | estimation 180, WOOD, fractions talk, math mistakes, open middle, etc. | | | QR, send home a math newsletter instead 1/month or 1/quarter to include current and upcoming units, fun problem, math fact, important math figure (more female and mathematicians of color), etc. This takes time for the 1st one, but subsequent ones should be a lot easier | | |
| | daily | almost daily | as appropriate | as appropriate | 1 every 2 weeks | 1 or 2 per month |
| | NO | YES | YES | YES | DEPENDS ON YOUR SOURCE (I think either/or is fine) | NO |
| | intentionally not aligned to curriculum to take advantage of resources that focus and develop number sense and pattern seeking | there are good, solid curriculum out there that pays due diligence to rigor and coherence, a good resource will anchor your teaching and pacing, allowing you to supplement, but it should never be treated as some bible that you must cover entirely | bleh, and because they made me do it, of course just wish I knew how to make it less painful for the kids and me, but I do allow retakes | more opportunities to work in groups, to take advantage of rich resources not presented in textbooks, to allow for technology as needed, to deepen conceptual understanding | to invite families (and the students) into doing mathematics, know your kids' family situation and make this completely optional, you might do a survey ahead of time, something like, "if you brought home a PoW, who'd be interested in working on it? Check all that apply... Me, Guardian, Sibling, Friend, Other ____" | intentionally not aligned to curriculum to encourage and foster creative problem solving, honor all students' capacities for thinking and wanting to be challenged, more opportunities to work in groups |

Fawn's MS Curriculum

by Fawn Nguyen

GOOGLE DOCS

√Resources

√Mr. Rogers Statements

Mr. Rogers Had a Simple Set of Rules for Talking to Children

Rogers brought this level of care and attention not just to granular details and phrasings, but the bigger messages his show would send.

Hedda Sharapan, one of the staff members at Fred Rogers's production company, Family Communications, Inc., recalls Rogers once halted taping of a show when a cast member told the puppet Henrietta Pussycat not to cry; he interrupted shooting to make it clear that his show would never suggest to children that they not cry.



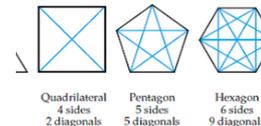
THE ATLANTIC

Educating Now

In this post I will share some thoughts about how we can reach towards equitable education for all of our students as well as work towards reconciliation. Difficult

Conversations... I believe we need to educate ourselves on the true history of Canada and the systemic racism that is still embedded within our education system and ...

EDUCATING NOW



Thought on Math Pedagogy (Indigenous)

Rich McCue's Workshop Notes

bit.ly/dsc-datavis

Indigenous Resources

Book of Potential Tasks

Math First Peoples (2020) - First Nations Education Steering Committee FNEC

This document is designed for teachers of Mathematics in British Columbia . It has been developed by the First Nations Education Steering Committee (FNEC), supported by the BC Ministry of Education and it is grounded in the view that increased...



FIRST NATIONS EDUCATION STEERING COMMITTEE FNEC

Indigenous Basket Weaving

Math calculation? Contact artist.

Basket weaving moves from potato fields into art and fashion worlds | CBC News

Gabriel Frey sits in his workshop, his towering frame hunched under a lamp, the only light illuminating the room. He shifts on his stool and grimaces slightly as he weaves one piece of black ash over another in a delicate but rhythmic dance. "Our creation story is based in black ash," Frey said.



CBC

Blog Resource on Indigenous Teaching?



Ian Landy @technolandy 13h

Q2: Galileo Galilei said: Mathematics is the language in which God has written the universe. If maths is a language, how might we reimagine our pedagogy around learning? #bcedchat

3 2 6



Kyra Sinclair @sinclair_kyra

Replying to @technolandy

A2: we use language to tell our stories, perspectives&understanding, which is different for everyone! we must see math as an individualized experience not a singular algorithm. We cannot merely teach students to DO math we need to educate ABOUT math. #bcedchat #UNBCED

9:50pm · 12 Jan 2020 · Twitter for iPhone

√Indigenous Lesson Ideas

DEEPENINGKNOWLEDGE :: Deepening Knowledge: Aboriginal Peoples Curriculum Database

The Deepening Knowledge Project (DKP) seeks to infuse Indigenous peoples' histories, knowledges and pedagogies into all levels of education in Canada. The project is a part of the Ontario Institute for Studies in Education, University of Toronto, which is located on the territories of Anishinaabe and Onkwehonwe peoples.



UTORONTO

√First Peoples Principles of Learning

Learning ultimately supports the well-being of the self, the family, the community, the land, the spirits, and the ancestors.

Learning is holistic, reflexive, reflective, experiential, and relational (focused on connectedness, on reciprocal relationships, and a sense of place).

Learning involves recognizing the consequences of one's actions.

Learning involves generational roles and responsibilities.

Learning recognizes the role of indigenous knowledge.

Learning is embedded in memory, history, and story.

PUB-LFP-POSTER-Principles-of-Learning-First-Peoples-poster-11x17.pdf

PDF document

WWW.FNESC.CA

Video Resources

Video Channels

YoutubeEDU, Khan Academy,

WooTube

Homepage

Find joy in learning mathematics.

WOOTUBE



Mr Johnson (from Heidi)



mathjohnson

This Channel has videos for Mr. Johnson's F&P Math 10, Pre-Calculus 11, and Pre-Calculus 12 classes @ Okanagan Mission Secondary School in Kelowna, BC, Canada.

YOUTUBE

√Video Channel

LearnZillion - good but require subscription

Readings

√Online Posting Dos and Don'ts

Resource: Discussion Board DOs and DON'Ts for Students

| |
|---|
| Do think before you post. Complete the reading or preparation work before you write. |
| Do post your response early to give your classmates more time to reply. Check back later to see what comments have been added. |
| Do explain your opinion and use examples to help others understand your points. |
| Do post something that furthers the discussion and shows depth of thought. The best part of a discussion board is that you get lots of think time before you post. Use it. |
| Do reply to several of your classmates' posts, adding examples or asking questions. |
| Do remember that it is harder to tell when something is a joke online. Use humor sparingly. |
| Don't agree with everything you read. It makes for a really boring conversation. Politely disagree when you have a difference of opinion. |
| Don't reply to the same people each time. Try to bring in other voices. |
| Don't get personal. Focus your criticism on ideas and arguments, not on your classmates. |
| Don't bring the outside in. No inside jokes, references to people who aren't in the conversation, or comments you wouldn't say face-to-face. |

Top Ten Discussion Board DOs and DON'Ts for Students. From Power Up: Making the Shift to 1:1 Teaching and Learning (Neebe & Roberts, 2015). Reprinted with permission.

√Digital Education

Common Sense Education

Common Sense Education provides educators and students with the resources they need to harness the power of technology for learning and life. Find a free K-12 Digital Citizenship curriculum, reviews of popular EdTech apps, and resources for protecting student privacy.



COMMON SENSE EDUCATION | DIGITAL CITIZENSHIP CURRICULUM & EDTECH REVIEWS

√Articles to Read

Leslee Francis Pelton's research is affiliated with University of Victoria and other places

2002720254_Leslee_Francis_Pelton
WWW.RESEARCHGATE.NET

XBlog on Augmented Reality

MISSABIGAILHOLMES.WORDPRESS.COM

√No Teaching Math Before Grade 6

<http://www.inference.org.uk/sanjoy/benezet/1.html>

When Less Is More: The Case for Teaching Less Math in School

In 1929, the superintendent of schools in Ithaca, New York, sent out a challenge to his colleagues in other cities. "What," he asked, "can we drop from the elementary school curriculum?"

PSYCHOLOGY TODAY

√Books on Accessibility

Accessibility's Catalog Page | Pressbooks

With raised awareness and accessibility laws emerging around the world, understanding what inclusive access to the Web means is becoming necessary knowledge for anyone who produces digital content. Much of the current information on Web accessibility requires some technical understanding, and may be difficult to consume for the average person....→

RYERSON

√Potentially Useful

Privacy Compass

The privacy compass for web 2.0 Tools

THE PRIVACY COMPASS FOR WEB 2.0 TOOLS. HELPING TEACHERS NAVIGATE CHALLENGING TERRAIN

PRIVACYCOMPASS

√Clearing online presence

<https://www.cnet.com/how-to/google-keeps-a-scary-amount-of-data-on-you-heres-how-to-find-and-delete-it/>
<https://www.facebook.com/help/2207256696182627>

Data

Population Education

Look at dot video - great topic for formative assessments before a summative using information.

Population Education - Population Education Resources for Teachers

There are over 7 billion reasons to include population studies in your classroom. Whether you need a lesson plan covering a specific topic or a set of activities for Earth Day, we've got you covered. Browse Resources Workshops for teachers are held nationwide at public and private schools, educator conferences, nonformal education sites and on university campuses.

POPULATION EDUCATION

Stats Video

Hans Rosling: The best stats you've ever seen

You've never seen data presented like this. With the drama and urgency of a sportscaster, statistics guru Hans Rosling debunks myths about the so-called "developing world."

TED

Data

<http://www.oecd.org/about/members-and-partners/>

Smithsonian open access

Smithsonian Open Access

Welcome to Smithsonian Open Access, where you can download, share, and reuse millions of the Smithsonian's images-right now, without asking. With new platforms and tools, you have easier access to more than 3 million 2D and 3D digital items from our collections-with many more to come.



SMITHSONIAN INSTITUTION

Open Data Sites

- <https://open.canada.ca/en/open-data>
- <http://opendata.victoria.ca>

American Census

New Year, New Resources: Happy 2020!

We bring school subjects to life using real-world Census Bureau statistics to create materials for use year after year at all grade levels. Statistics in Schools provides more than 100 activities that you can use to enhance and invigorate learning in many subjects.

U.S. CENSUS BUREAU

Canadian Census

2016 Census of Population - Data products

These 2016 Census products provide statistical information about the population, age and sex, type of dwelling, families, households and marital status, language, income, immigration and ethnocultural diversity, housing, Aboriginal peoples, education, labour, journey to work, language of work and mobility and migration, as measured in the census program.



STATCAN

Twitter Data Analysis

TAGS Explorer : https://hawksey.info/tagsexplorer/?key=1JanjhTmhs4YHKQRw1qm_AWJuVxIKCw6D4y8Siz8z9no&gid=400689247&mentions=true&retweets=true

<http://tags.hawksey.info>

With this spreadsheet you can:
- automatically pull results from a Twitter Search into a Google Spreadsheet

Instructions:

- If you've never run TAGS > Setup Twitter Access do so now (this should only need be done once for all y
- Enter term <- you can use search operators like AND OR as well as from: an AND from:BarackObama' (without quotes)

Note: Make a one off collection with TAGS > Run now! or set a trigger to collect every hour TAGS > Update hour. To change the frequency open Tools > Script Editor then Triggers > Current script's tr adjust

Advanced Settings:

| | | |
|-----------------------|---------------|---|
| Period | default | |
| Follower count filter | 0 | <- if search term is being spammed you can set the minimum fo must have to be included in archive |
| Number of tweets | 18000 | <- maximum varies based on the type of archive you are collecti |
| Type | search/tweets | <- use a search term in step 3 above to get results from last 7 de |

Copy of TAGS v6.1.9.1
by Michael Paskevicius
GOOGLE DOCS

√Planning RealLife Projects

Bringing a Culturally Responsive Lens to Math Class

Culturally Responsive Teaching A middle school math project gives students a chance to apply the skills they learn in class to an issue they care about.



EDUTOPIA
