October Ed and Tech

National Geographic Society, with support from the Paul G. Allen Family Foundation, officially launches the **Slingshot Challenge**: a new, global video challenge designed to amplify the voices and ideas of the next generation of planet protectors. Participants will be asked to create a one-minute video outlining an innovative solution to a current environmental issue that they're passionate about. Winning videos will be selected by a panel of judges to receive cash prizes, as well as an invitation to the iconic National Geographic Explorers Festival in Washington, D.C. Students ages 13-18 and educators looking for ways to engage young people around environmental action are encouraged to sign up on our website. Participation is free!

STEMy stuff

Purdue University Kids STEM Degree

Paul Hamilton (@PaulHamilton8) tweeted at 1:47 PM on Mon, Oct 10, 2022:

NEW: There was a bit of 🚩 for the #AR learning journey for #HigherEd so thought I would do a Primary/Elementary School one. 'Everything works somewhere, nothing works everywhere' Dylan Wiliam. Where might #aroniPad work in the primary school? @AppleEDU @Usingtechbetter https://t.co/qNBaPa5kNQ

(https://twitter.com/PaulHamilton8/status/1579362989341544448?t=TR3fJn1-BmuMn_rEPK1uxQ&s=03)

Eduporium (@Eduporium) In terms of #STEAM learning, teachers can combine reading and writing experiences with kinesthetic experiences and encourage students to jot down their thoughts, emotions, challenges, or whatever else they'd like. #21stedchat #teachertwitter #STEM https://t.co/estDIM5N6x

(https://twitter.com/Eduporium/status/1578952182568976384?t=ne5QnoV2LQk9oowDHAvCxg&s=03)

WeAreTeachers 20 Best Multiplication Songs To Help Kids Practice Math Facts https://t.co/OQNNNXIPoP (https://twitter.com/WeAreTeachers/status/1580423090768850944?t=bpVXGai32jalJ8pEu6Z0uA&s=03)

Hey 4th, 5th and 6th grade teachers! We added addition, subtraction, multiplication and division of fractions to #99mathgame 🗏 MORE FRACTIONS! https://t.co/vMkE5zhfSo

(https://twitter.com/99mathgame/status/1578317162204123136?t=RaTUQpygHD2bMIHmQz2fdw&s=03)

STEAM lesson planning tool

Architect Challenge: Design and construct a functional kinetic sculpture that illustrates the concept of balanced gravitational forces.	
Technology	Students will use the app Sketches School to plan their team's prototype.
	Students will use the app Clips to record a video of their sculpture in motion and add filters, text, stickers, and music to help illustrate the concept of balanced gravitational forces.
Reading	Students will listen to a picture book read aloud (Mr. Ferris' Wheel) and complete associated response activity as a whole class (fill out Engineering Design Cycle graphic organizer)
	Students will read a nonfiction article that explains the focus career (Architect) in small groups and complete associated response activity in that small group (Emaji Design Planner)
Engineering	(Backstory ties into Mr. Ferris' Wheel) Acting as architects, students have been tasked by the World's Fair Committee to design and build a prototype of a sculpture that is both aesthetically pleasing and structurally sound. This sculpture will be one of the main art installations at the upcoming World's Fair. Students will adhere to constraints placed on thei structures. For example, their structure may be constrained to a certain perimeter, required thave a certain number of levels, or to be made with only certain provided materials.
	Students will design and build a prototype, then conduct basic tests to determine stability. Students will have continuous apportunities to modify their prototype.
Art	Students will research the artist Alexander Calder and the concept of mobiles (kinetic sculptures). Students will view several examples of his work through provided images and videas, as well as mobiles (kinetic sculptures) designed by various other artists.
	Students will plan, construct, and decorate (paint/markers/crayons) their prototype using provided materials.
Mathematics	Students will calculate the perimeter and area of their sculpture base. 3.Ma2b Multiply side lengths to find areas of rectangles with wholenumber side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.
	3.MO.B Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different cross or with the same area and offerent perimeters.
	Students will identify the shape of their base using all applicable names (example: a rectangle would also qualify as a quadrilateral, etc) 3.6.1 Uniderstand that shapes in different categories (e.g., thombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognite rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals, and draw examples of quadrilaterals.

TCEA Did you get your FREE membership?

Wish you had a list of amazing interactive #science tools? Explore these periodic tables of elements that help make science interactive! https://t.co/aMBN1ml1sw @mguhlin

#scichat #teachertwitter #teachingtools https://t.co/iiQXzsoXzk

(https://twitter.com/TCEA/status/1583073107547684865?t=K_PBUs1_98E25DhxfgysIA&s=03)

Carly And Adam (@carlyandadam)

Students learn about magnetism as they explore how magnets attract and repel with our latest 3rd grade NGSS challenge.

STEM Teachers Club Members this challenge will be available soon on the membership website.

https://t.co/owvaisVJ6N https://t.co/sT3bZZiQTH

(https://twitter.com/carlyandadam/status/1582418385236684800?t=w0CDGu0bUVcXU6lxG_qN4A&s=03)

Lauren Kelly, M.Ed. (@KellysSTEMkids) This is an great image to help explain STEM to someone. STEM is opened ended and student-led. They are being critical thinkers and while being creative. https://t.co/UhtmQm6OuU

(https://twitter.com/KellysSTEMkids/status/1583932022166519808?t=W1R5v7flL184DYdH5xSjNQ&s=03)

Thermal Energy Design Challenge

@kenneedyyyyyyy

Complete tasks at each of the national parks.

Earn Supply parts in order to build a cup.

Build a cup that can withstand Thermal energy.

#plsdproud @AlesiaGillison @DrKaraJackson @PlsdSupt @lkellyccs @KauffeldMichael https://t.co/wV1pYSMAhz

(https://twitter.com/mrshowell24/status/1583225548179787777?t=QH5dE-b1l5VfXidtd1DalA&s=03)

ExploreLearning (@ExploreLearning) Popcorn kernels aren't just for popping, they're also for dancing! Check out this fun and easy experiment to teach kids how chemical reactions occur with the ExploreLearning Science4Us Dancing Kernels experiment! https://t.co/oeqwvzhMjb https://t.co/8XKgFLvii4

(https://twitter.com/ExploreLearning/status/1582974930685022208?t=1EQzKKJ_ggW1dMphFYaQPw&s=03)

TCEA 🎃 Join for FREE this week! 🎃

The Power of Numberless Word Problems

https://t.co/x8ZdmnWk3Q via Mix and #Math

#learning #educhat #mathchat https://t.co/V6pYO6KLUG

(https://twitter.com/TCEA/status/1582975238135894016?t=1Q2WcoyJeiH6xSvspkRYSQ&s=03)

Sarah Carter (@mathequalslove) Today's Dot Plot of the Day: How many hours did you sleep last night? Round to the nearest hour.

https://t.co/9PdcA7JRYI

(https://twitter.com/mathequalslove/status/1582502384416468993?t=8nnfFtWlaKC6UJuoxcKxVQ&s=03)

PE ARTS SEL

Say goodbye to IDK.

Does tech exist in PE? Of course, it does!

TeacherGoals (@teachergoals) Music matters! Unknown https://t.co/0pNDwiq9mu (https://twitter.com/teachergoals/status/1578804709644652544?t=PpEZ6XakvB-w8iH7O6C31g&s=03)

Todd Finley (@finleyt)18 Tips for building strong relationships with students | Brain Blast #studentengagement #edchat #k12 #highschool #elemchat #students #teacherstudent #ukedchat #edleadership https://t.co/QflOQCplw4 (https://twitter.com/finleyt/status/1579183090723086336?t=UopewtQBfGmmTM-6rBKc4A&s=03)

Brad Weinstein (@WeinsteinEdu) Behavior must be learned and taught. 🙌

@kwiens62 https://t.co/FSGKZZKyD0

(https://twitter.com/WeinsteinEdu/status/1578754771996971008?t=W8JYJnqpgnHT6XEyrq8H4w&s=03)

Chris Cline (@chrisclinewcps) I don't necessarily agree. Students cannot live in "productive struggle" phase. There has to be some modeling, then gradual releases with constant check for understandings. This could look different in all classes. I've always shared the poster below for all teachers. #wcpsmd

https://t.co/hPEL1X14KH

(https://twitter.com/chrisclinewcps/status/1581633953811009536?t=z4oTy FgeeDKNMFVW5IHDg&s=03)

ONTSpecialNeeds (@ONTSpecialNeeds) For all my awesome teachers that love things in a beautiful graphic, here is de-escalation strategies for meltdowns: https://t.co/7Rh02DPS2t

(https://twitter.com/ONTSpecialNeeds/status/1578889476499066880?t=Zh0r8WfcDbrgWrva0bNF4A&s=03)

How to change mindsets when teaching multilingual students.

#Sketchnote by @ValentinaESL https://t.co/mz2uhWbUmP

(https://twitter.com/MindShiftKQED/status/1581259846040449024?t=gunB9vHad5DB9E5URhQBIQ&s=03)

What to say instead of No Se/ Idont know Spanish version

Things to remember poster

ELA

Joachim Horn (@joachorn) Love the article about "Teaching ELA through STEAM & Coding"!

https://t.co/68XGmfHeAM

(https://twitter.com/joachorn/status/1584532566761431041?t=snziA53R fYkdfMT88bo A&s=03)

I can not say enough good things about Jess5th's work. Check out this new unit she is sharing.

A few people asked what mentor texts I use in our unit, here is the whole unit plan. The mentor texts are listed out in there: https://t.co/o76J2intAd (https://twitter.com/Jess5th/status/1581643916902006785?t=BQ- 1nYH9XqkpqUd1-fmaw&s=03)

@Lyricalswordz & I created these classroom-ready resources on novels by Native authors--There There by Tommy Orange, The Marrow Thieves by Cherie Dimaline, and The Only Good Indians by Stephen Graham Jones. Please use & share! https://t.co/qtsrmRpz7S (https://twitter.com/JoelRGarza/status/1579483304318799872?t=hmYUSW_NU6uXR-Ot-DWdpg&s=03)

Writing Feedback from Paige Daniels

How to ask great questions. Understand pupils' learning & support their oracy.

Education Technology (@EduTweetTech) How to Spot Fake News- Classroom Poster https://t.co/eSOMkEU4Cy https://t.co/

Eduporium (@Eduporium) In terms of #STEAM learning, teachers can combine reading and writing experiences with kinesthetic experiences and encourage students to jot down their thoughts, emotions, challenges, or whatever else they'd like. #21stedchat #teachertwitter #STEM https://t.co/estDIM5N6x

(https://twitter.com/Eduporium/status/1578952182568976384?t=ne5QnoV2LQk9oowDHAyCxg&s=03)

Stephanie Conklin (@ConklinSteph) We took the most missed terms from @quizizz FAC on vocabulary for Am Rev...student T was given the Repuzzler @eduprotocols on Thursday and created these! QR code gives letters of another vocabulary term https://t.co/5HXIIHA2k9 (https://twitter.com/ConklinSteph/status/1579991620925427712?t=qWhREexH0H0dAXDrPjN_3g&s=03)

Creative Writing resources from Eric Curts

Year-long Google Doc where S's reflect on their process AND results for each writing piece to create a "Writing Story" for the year.

Jennifer Williams #ClimateActionEdu {FREE} Digital Literacy Posters for the classroom! Download them here: https://t.co/2jLBFG7NYU #MediaLiteracyWeek #ISTEAmbassador #ad @ISTEofficial #TeachBoldly https://t.co/yBomlcpUQt (https://twitter.com/JenWilliamsEdu/status/1585800799627747328?t=ZGgkllrH B5PNcTmbWbG6g&s=03)

Ditch That Textbook (@DitchThatTxtbk)

The Pixar Story Structure is great for recapping learning, creating new ideas, and presenting group work.

Get this FREE template for students: https://t.co/NOWqLitrIO

Debbie Reese (tribally enrolled, Nambé Pueblo) (@debreese)

Are you planning to use books about Native people in November (usually declared as Native Heritage month)? If the answer is yes, please select ones by Native writers. With those books, you can push back on so many misconceptions! (https://twitter.com/debreese/status/1582129143138775040?t=ARuoJBWkLY0bm8OxUT-0wA&s=03)

Jessica Kirkland (@jkirk___)

The kids are drafting their personal narratives of a food memory and today I did a mini lesson on ways they could open their narrative and modeled two options of my own: opening by describing the person OR the place I connect with the food and how each choice shaped tone/story: https://t.co/7C7mm8SBPy

(https://twitter.com/jkirk /status/1582473864554360832?t=qlSbHJO-zaOtAaGUNlWK4g&s=03)

Technology Tools

Bethany Jarmul (@BethanyJarmul) 10 FREE websites that I use as a writer and how I use them. (https://twitter.com/BethanyJarmul/status/1579130859231117317?t=fjQ2n5Cj9bKSG_0QDIZd6g&s=03)

Misty Kluesner (@MistyKluesner) My second graders were self-directed #creators, each working at their own pace and helping one another too! #AdobeEduCreative https://t.co/Qg4vxmxo00

(https://twitter.com/MistyKluesner/status/1583203887976046592?t=UENt6Sn4KpOXXDhSBE6kVA&s=03)

Halo AR by LightUp Wonderful to be named among such great company! Thanks @JaimeDonally, @ISTE #ARVRinEDU #AugmentedReality #ARoniPad https://t.co/dQ4k4QLiZ9 (https://t.co/dQ4k4QLiZ9 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536?t=MaFlcHc45ydwj-44 (https://twitter.com/lightup/status/1583248821441601536 (https://twitter.com/lightup/status/1583248821441601536 (https://twitter.com/lightup/status/1583248821441601536 (https://twitter.com/lightup/status/1583248821441601536 (https://twitter.com/lightup/status/1583248821441601536 (https://twitter.com/lightup/status/status/status/status/status/statu

80 ready to use templates on SarahKiefer's co-created site "Templates for Teachers" (https://www.templatesforteachers.com/) they are all free & ready for use & modification

Trading card template

Social Studies

Here are 22 Google Slides for the 22 school days of #hispanicheritagemonth; all linked to stories on @epic4kids all written by, illustrated by, or about members of the #hispanic and #latinx community. As always, remember to vet stories before sharing.

Topographic maps and photos of over 1.25 million landmarks in the United States including: Water, Land, Man-made

Stephanie Howell (@mrshowell24)

US President @eduprotocols https://t.co/MutxNbZC30

(https://twitter.com/mrshowell24/status/1579228712108703744?t=A5CActE8JauleezUGnj Gw&s=03)

National Parks Hidden Gems

Dr. Joanne Freeman (@jbf1755) For those asking for a link to my free online American Revolution course, it's here:

https://t.co/K8a0mknBHZ

(https://twitter.com/jbf1755/status/1578953598951911424?t=7JlpRsL53s1ot-ExYDdv5A&s=03)

Trying to find ways to engage Ss in text while making them access higher levels of thinking & creativity. Treaty of Versailles Read and Roll with reading resources and more

https://twitter.com/JillWebs/status/1579957498047778816?s=20&t=0hY0XYijlJ_nGaR_CbG6rg

Tom Rogers (@RogersHistory) Very cool to show students how borders have changed over time... @TMHistoryIcons https://t.co/zFT9QAUNkW (https://t.co/zFT9QAUNkW (https://t.co/zFT9QAUNkW (https://t.co/zFT9QAUNkW (https://t.co/zFT9QAUNkW (https://twitter.com/RogersHistory/status/1581610302856081410?t=z8QmXemuCncysHZ-Gq5_VQ&s=03)

iCivics (@icivics) Order up! People's Pie is back. Teach students about balancing the federal budget with this interactive game. https://t.co/bQMtNRvom7 #PeoplesPie https://t.co/vmvreJcO94

(https://twitter.com/icivics/status/1581344209558437888?t=Ntl6nO9TXe04KdSzcJtJ0A&s=03)

Social Studies vocab throwdown

Dave McIntire (@d_mcintire)

#VisualThinkingStrategies using @americanart pieces. One event: #WestwardExpansion. Two viewpoints. My young @PemHillSchool historians did a great job wrestling with both. https://t.co/tstkPatkH4

(https://twitter.com/d_mcintire/status/1582420660718297088?t=Ai9ZkbFEQcibwWtEYCEOgg&s=03)

5 Principles of Deliberate Practice 'aka' improving teacher expertise.

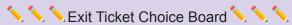
TCEA If you follow the 5E Model for planning and add technology to it, you end up with a very powerful way to bring the curriculum to life for all students. https://t.co/vFHSIr5bPY https://t.co/bVCK9aELZc

(https://twitter.com/TCEA/status/1578257064593326080?t=o7SP_W-YAywzZg2v2KdItw&s=03)

Need closure activities? Here are 10 ideas from @finleyt ##edutwitter #teaching #k12 https://t.co/pUC4A3MdGt (https://twitter.com/TCEA/status/1579638929669918721?t=aIRS-zyWUIjCKW4WmosQfg&s=03)

Dr. Katie Ann Top story: A Simple Process and Template for Student Podcasting • TechNotes Blog https://t.co/y8sjrf9g8d, see more <a href

Randy Swift (@RandySwift9) Those who do the talking, do the learning! https://t.co/a8fsQi7QJM (https://twitter.com/RandySwift9/status/1579900078096990208?t=4KfARZos7w0r3LD1uclk6A&s=03)



https://t.co/Q2ry4BKD08 via Learning with Lauren https://t.co/l8P1H9KwUZ #edtech #teachertwitter #edu https://t.co/mqOah5RLFc (https://twitter.com/TCEA/status/1579986970566045696?t=-oAFhnVBmjDCZk7rXVyuzg&s=03)

Peps (@PepsMccrea)A few weeks ago, I published a thread on 'Backwards Planning'.

@MrGoodwin23 then took that thread and fed it into his magical visual makeover machine. Feast your eyes on WHAT CAME OUT https://t.co/D1qFv9I6Ty (h

Darrell Wakelam (@DarrellWakelam)

Looking for Halloween and 'Day of the Dead' inspiration? . . . all of these projects and more are free here . . . https://t.co/STUkjkqYZj I use cheap, accessible materials and in most cases these can easily be recycled again afterwards.

"extraordinary art from ordinary things" https://t.co/SlazTa93hu

(https://twitter.com/DarrellWakelam/status/1585529971082252288?t=VwquRtctxTVtC3YCrVN2VA&s=03)

m a r i a | mariagalanis.eth (@mariagalanis) If you're offering collaborative group work opportunities to students, these Possible Group Roles may help highlight student's individual strengths, structure the work, help the with overall success for everyone involved, etc. https://t.co/1XFe9S47M1 (https://twitter.com/mariagalanis/status/1461052487704719365?t=RsUHqXaTH2nVMgA_2yoRaQ&s=03)

Mr "Von Miller is a Bill" Allard (@MrAllardSS)

Loving this #EDUProtocols remix from @moler3031 Ss analyzed doc and organized there thoughts in 15 mins! Might add using this to write there paragraphs next time. https://t.co/QrvJTH61Mg (https://twitter.com/MrAllardSS/status/1583087001720717312?t=ISDV0f-JnLYvsiOen8ef1g&s=03)

Evan Robb (@ERobbPrincipal) What Are The Kinds Of Questions That Help Students See Themselves As Learners? https://t.co/cCPskU9YmK (https://twitter.com/ERobbPrincipal/status/1583047654686089216?t=LsYLmsd41JgdCMNiBxJ9bw&s=03)

Noticing things from videos and notetaking