Teaching Science in Virtual Learning Environments

May 12, 2020

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Introductions

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Share 1 distance learning platform you strongly recommend in the chat box

Warm-Up Task

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Other Related Webinars

https://www.idra.org/services/learning-goes-on-a-covid-19-resource-for-education/#

- Tools & Tips to Alleviate the Homework Gap
- Facilitating Online Math Sessions

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Checking for Understanding	Explaining Concepts	Student Demonstrations
EdPuzzle	Educreations	Padlet
Quizlet	Explain Everything	FlipGrid

Exploring Platforms for Virtual Science Learning

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Distance Learning with Newton's Laws

https://tinyurl.com/y8ormn5j

TEKS 8.6C

SWBAT investigate and describe applications of Newton's three laws of motion such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches.

Important Concept

- Vertical Alignment
- Covers about multiple science and math concepts
- Readiness Standard and often dual-coded (incorporates a process standard along with this content standard)

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EDpuzzle

Make any video a lesson. Add audio-notes and questions to create an interactive experience for your students.

Key Features and Benefits

- Use your own videos or choose from various video services like YouTube, Khan Academy, Vimeo and more.
- Crop videos
- Add voice overs
- 3 question types: open-ended, multiple choice and comment
- Integrates with Google Classroom

Wow Factor

- Student progress data available in real time

Limitations

- Limited to 20 videos
- Customer support only available with paid subscription

Compatibility:	Web based and mobile app available (iPad only)
Cost:	Free
Tutorial / Demo	https://youtu.be/tN_OWCe7PEY
Support Page	https://edpuzzle.zendesk.com/hc/en-us/categories/201076232-For-Teachers

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EDpuzzle

Basic

$0

Per month

Current

Access to more than 5 million videos

Create your own interactive video lessons

Add questions, audio and notes

See detailed analytics on your students' results

Get storage space for 20 videos

Increase storage when you refer Edpuzzle to colleagues

Pro Teacher

$9.50

Per month

Upgrade

All the same benefits of the Basic Plan, like detailed analytics on your students' results, plus...

Unlimited storage space for your video lessons

Priority customer support

Schools & Districts

Price upon request

Request quote

All the same benefits of the Basic Plan, plus...

Pro Teacher for everyone

Get all teachers on the same secure video-streaming platform

Streamline curriculum across your district

A dedicated School Success Manager to help you onboard teachers to Edpuzzle & integrate with your LMS

Note: Check with your technology training and development department.
You may already have a paid subscription

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educreations

Description: An interactive whiteboard and screencasting tool . Annotate, animate, and narrate nearly any type of content as you explain any concept. Teachers can create short instructional videos and share them instantly with students or ask students to show what they know and help friends learn something new.

Key Features and Benefits

- **On-demand instruction:** Finished lessons are stored securely in your online Educreations account.
- **Sharing:** Lessons can also be shared via link, email, Messages, Facebook, Twitter, or by embedding them on your blog or website.

Wow Factor

- Great free features, and lots of them!
- Record and replay your voice, handwriting, and drawings.

Limitations

- Free accounts are limited to one saved draft at a time.
- It's not yet possible to edit out specific sections of your recording,
- Each free Basic Edition plan includes 50MB of cloud storage space for your lessons
- You can only export videos if you have a Pro account

URL: https://www.educreations.com/

Compatible Devices: iPad (Requires iOS7 or higher)

iTunes Link: https://goo.gl/RCZS9r

YouTube Video: https://vimeo.com/45241380

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educreations

Basic

No payments, No surprises

$0/year

- Record & share lessons
- Basic whiteboard tools
- Create & join classes
- Save 1 draft at a time
- 50MB of storage space
- Email support

Pro Classroom

1 teacher, 40+ students

$8.25/month

billed annually or $11.99 month-to-month

- Export videos
- Advanced whiteboard tools
- Import docs, maps, & more
- Save unlimited drafts
- 5GB of storage space per user
- Priority email support

Pro School

10+ teachers, starting at

$1495/year

- Teacher & student management
- Pro for all teachers' students
- Configure in-app features
- Centralized billing management
- Unlimited storage space
- Dedicated support specialist

Note: Check with your technology training and development department.
You may already have a paid subscription

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padlet

Description: Make beautiful boards, documents, and webpages that are easy to read and fun to contribute to. You can choose premade templates or create one from scratch. You invite collaborators to add content, comment, like and make edits in real-time. This is a great platform for students to demonstrate their understanding, collaborate with peers and grade/rate each other on projects.

Key Features and Benefits

- **On-demand instruction: Students can add photos, documents, web links, videos, and music to make their text come alive.**
- **Sharing: Padlets can be shared with classmates and colleagues, friends and family.**

Wow Factor

- Great free features, and lots of them!
- New features:
  - Privacy
  - Security
  - Bigger uploads
  - Create reports and portfolios for students
  - Content filtering
  - Translation options

Limitations

- Free accounts are limited to 22 padlets and have limited features.
- They have a free 30-day trial and then plans start at $12 per month.
  - Upgrade option is $8 per month

URL: https://padlet.com/

Compatible Devices: Chromebooks, Amazon & Apple Devices

iTunes Link: https://apps.apple.com/us/app/padlet/id834618886?ls=1

YouTube: https://www.youtube.com/channel/UC9YVlt7eSTTYOFNw0kyJhiA/videos

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padlet

Our pricing is as simple as our software

SCHOOL PLAN	TEACHER PLAN ANNUAL	TEACHER PLAN MONTHLY
$1499	$99	$12
per school per year	per teacher per year	per teacher per month
Includes unlimited teacher and student accounts	Includes unlimited student accounts	Includes unlimited student accounts

Note: Check with your technology training and development department.
You may already have a paid subscription

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Flipgrid

Description: Learners use this platform to reflect upon, discuss and showcase what they are learning, making, reading, solving, experiencing, and playing. Educators create grids, or meeting places for their classroom. Then they create a Topic to ignite discussion and student responses. This is a creative platform for student to share what they know with their peers and teachers.

Key Features and Benefits

- **Students create short, authentic videos within this platform, or they can upload their own.**
- **It's simple and fun to make these videos. Learners pause and flip their camera while recording, add uploaded photos, trim video clips, add a whiteboard, text, emoji and more.**

Wow Factor

- It's completely free and can be used across the subject areas!
  - Ice breakers
  - Exit tickets
  - Book talks
  - STEM demonstrations
- It integrates well with Google Classroom, Canvas, Microsoft Teams & more!
- It has screen-recording and AR features too!
- These videos can be shared with families and they can respond too!

Limitations

- There's a lot to learn with this platform, but they have extensive support and advanced training for educators to receive PD and certificates.
- If students upload their own videos, they have to be under 500MB. This may frustrate some students that prefer other video making software.

URL: https://info.flipgrid.com/

Compatible Devices: Google and Apple Devices

iTunes Link: https://apps.apple.com/us/app/flipgrid/id756972930?ign-mpt=uo%3D4

Getting Started for Educators: https://vimeo.com/398016880

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Quizlet.com

Description: Quizlet is a free website providing learning tools for students, including flashcards, study and game modes

Key Features and Benefits

- Flashcards—Review your material, shuffle/randomize, or listen with audio.
- Learn—Track your correct/incorrect answers and retest the ones you've missed.
- Speller—Type what you hear in this audio-powered study mode.
- Test—Randomly generate tests based on your flashcard set.

Wow Factor

- Quizlet Live
- Scatter—Race against the clock to drag and match terms/definitions.
- Space Race—Type in the answer as terms/definitions scroll across the screen
- Search over 1 million existing study sets available and ready to use.

Limitations

- Free accounts come with advertisements
- Free accounts do not allow you to track student progress
-

Compatibility:	Web based and mobile app available (iPad and Android)
Cost:	Free
Tutorial / Demo	https://youtu.be/fN6dP3tPYi0
Support Page	https://quizlet.com/help

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Quizlet.com

$3 a month ($35.99 annually)

TEACHER SUPERPOWERS

Track student progress
See how your students are studying on Quizlet and which terms need more review

Adapt Quizlet Live
Play with custom teams, turn on audio and switch sets without changing groups

Organize your classes
Create an unlimited number of classes to connect your students with your content

Remove the ads
Help your students stay focused by getting rid of ads on the sets you create

CREATE BETTER SETS

Customize images and audio
Add your own images and recorded audio to customize material for your students

Add rich text formatting
Emphasize key points and patterns with bold, italic, underline and highlights

Create detailed diagrams
Add an unlimited number of points to your diagrams and unlock custom shapes

Work faster with the app
Scan in documents to create sets fast and access Quizlet offline with the mobile app

Note: Check with your technology training and development department.
You may already have a paid subscription

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Q&A

Teacher Academies

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Teacher Academies

These Academies are personalized, online training sessions where we can provide you with assistance on

- Structuring your online/offline lessons
- Creating short videos and/or recordings for instructions
- Using online whiteboard apps to record lessons
- Structuring brief assessments

We are here to help you,

Contact Information:

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Educational Practices Lead

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Training Support

http://bit.ly/IDRAYouTube
https://www.idra.org/services/learning-goes-on-a-covid-19-resource-for-education/#

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Learning Goes On – A COVID-19 Resource for Education
bit.ly/IDRAResponse

Resources & Research
in English & Spanish

New Resources

Ensuring Equity in Online Learning – Considerations in Response to COVID-19's Impact on Schooling

Spanish version: **Mejores Prácticas para la Instrucción en Línea a Raíz del COVID-19**

Best Practices for Online Instruction in the Wake of COVID-19

Spanish version: **Garantizar la equidad en el aprendizaje en línea**

COVID-19 Data Map – **Texas College Responses**

Policy Updates
in English & Spanish

Policy Updates

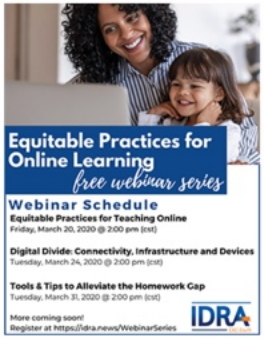
IDRA is releasing policy updates for schools regarding COVID-19 each Friday in our Learning Goes On eNews (sign up free). See a log of the updates here in English and in Spanish.

New! March 27, 2020, Edition focusing on the CARES ACT and how Texas colleges are responding to COVID-19: English • Spanish

March 21, 2020, Edition focusing on Testing for Students in Texas & Equity Implications: English • Spanish

Webinar Series
Live & On Demand

Equitable Practices for Online Learning – Free Webinar Series



See webinar hub for recorded webinars and related resources.

1. Equitable Practices for Teaching Online

Held Friday, March 20, 2020 @ 2:00 pm (cst) – **Watch recording**

2. Digital Divide: Connectivity, Infrastructure and Devices

Tuesday, March 24, 2020 @ 2:00 pm (cst) – **Watch recording**

3. Tools & Tips to Alleviate the Homework Gap

Tuesday, March 31, 2020 @ 2:00 pm (cst)

Register

More titles on the way!

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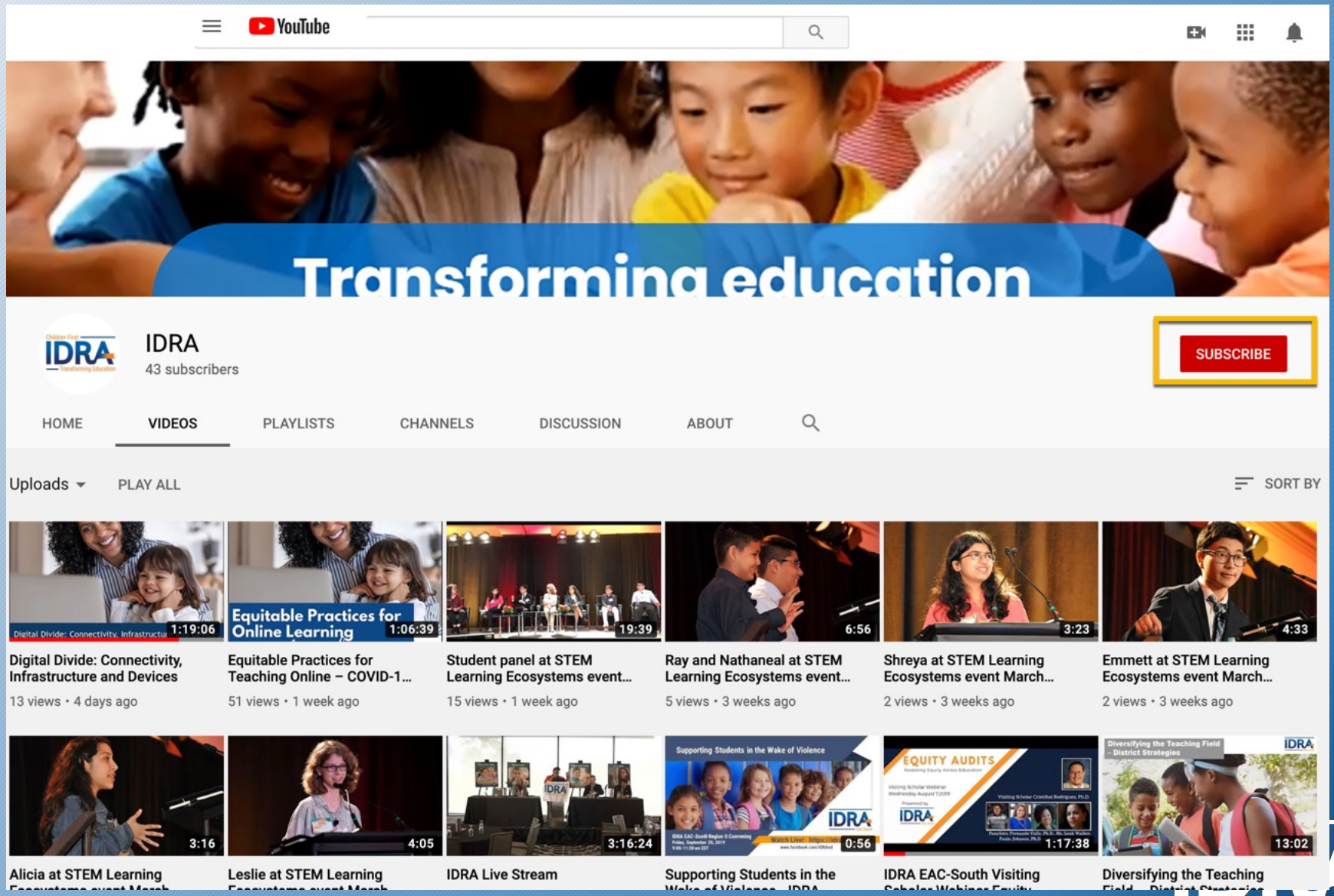
IDRA Video

http://bit.ly/IDRAYouTube



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