

PROFESSIONAL DEVELOPMENT

20+ CLASSROOM USES FOR VISUALIZERS

GYO-2024-25

FREE APPS &
LESSON IDEAS

November 21, 2024
4:00-5:00pm
EIU-Buzzard 2445

General Use Classroom Technology Tools



- ◆ • smartphones ◆
- webcams
- document camera
- digital cameras

Reading | Math | Science
Art | History | Phys Ed



More Information : www.eiu.edu/rsi/prof_development.php

Questions: Terry Sullivan (tsullivan@eiu.edu)



Using Cameras in the Classroom

DocCam, WebCam, Smartphone, Digital Cam

EIU College of Education GYO PD

Nov 21, 2024

Terry Sullivan - tsullivan@eiu.edu

tsullivan@oiu.edu

Infographics

Sign-In



Link -> <https://tinyurl.com/GYO-Camera>



Cameras as a Lesson Resource

<https://docs.google.com/presentation/d/1NPkjbmRasyOCMTZ27WuIKaZcHNjCSWrw/edit?usp=sharing&oid=107958406510947221327&rtpof=true&sd=true>



[Zoom Link](#) →

<https://eiu.zoom.us/j/88905726662?pwd=qNBrGsDCIxpeJSNYpg1c3nFJevoaxH.1>



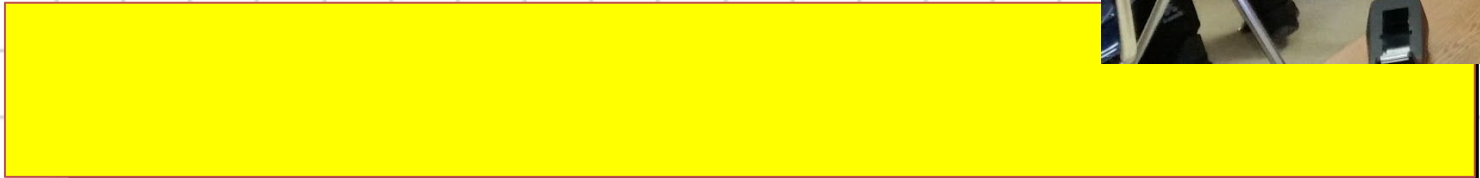
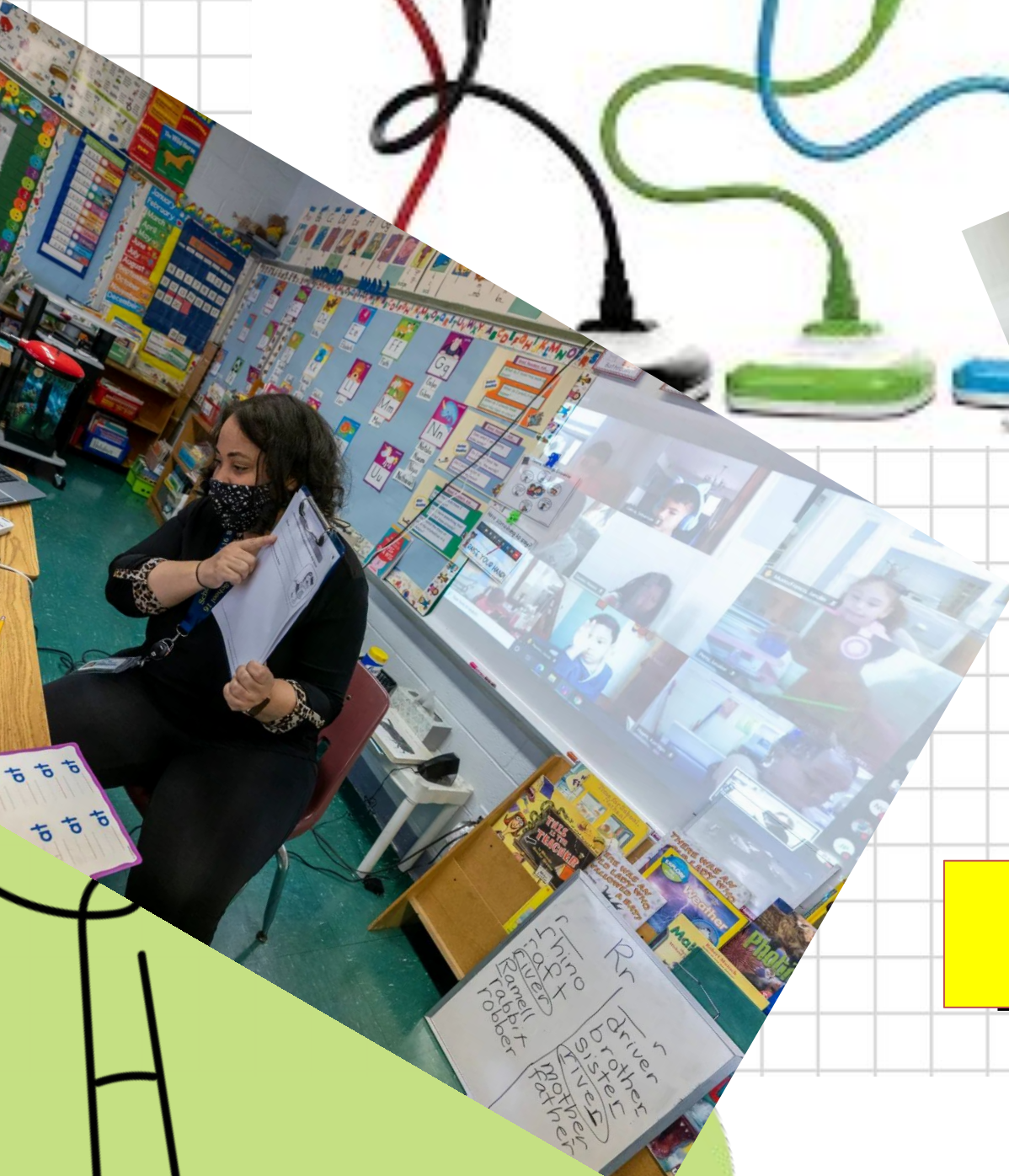
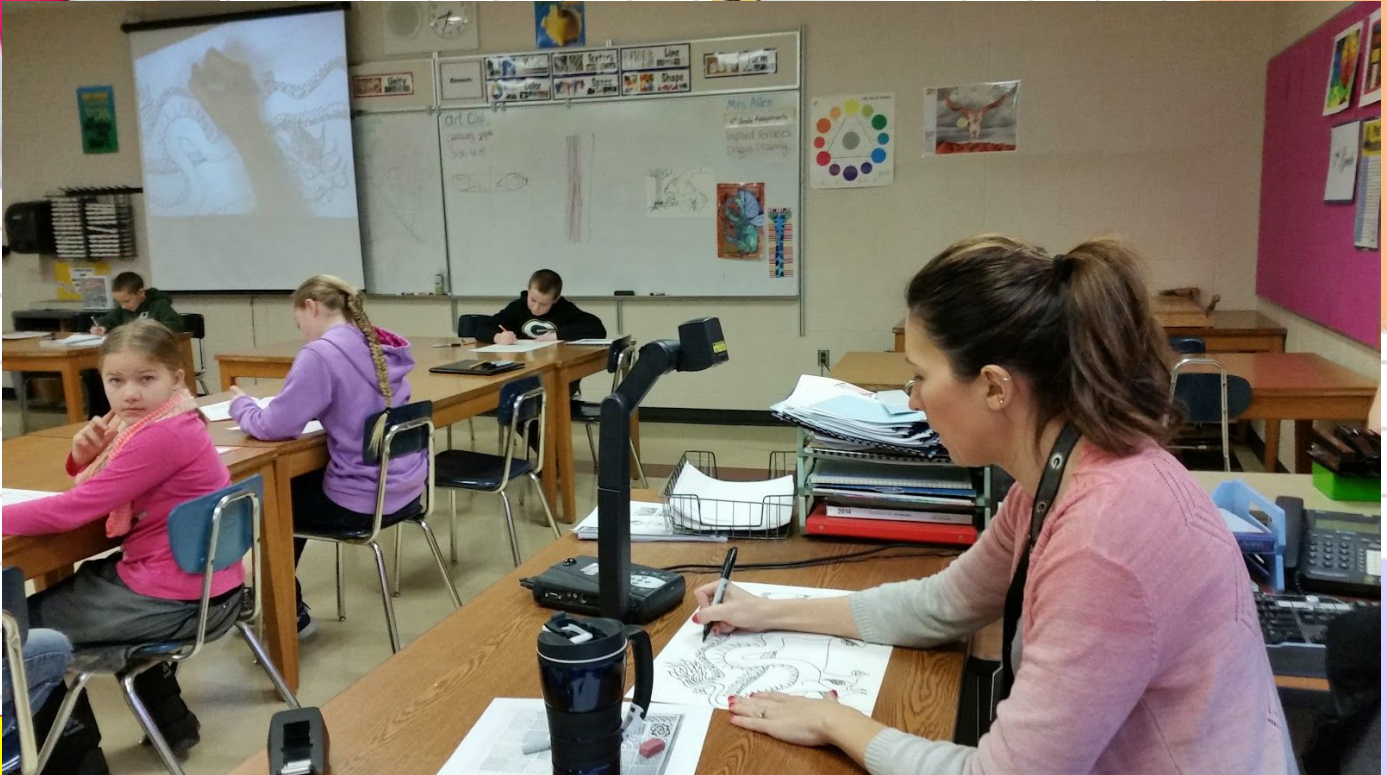
Uses for Document Camera

Ideas

1. Maps
2. Art Projects
3. Math Algorithm demonstration
4. Science/Math-diagrams and formulae
5. Food prep and recipes
6. Microscope - mineral, butterfly wing, salt, tie shoelace
7. Textbook or Literate Story - read aloud
8. How to use-calculator, protractor, tape corner, manipulatives
9. Writing/editing visually with group
10. Use with Interactive Panel Display

Share Experiences

DOCUMENT CAMERA
for the classroom





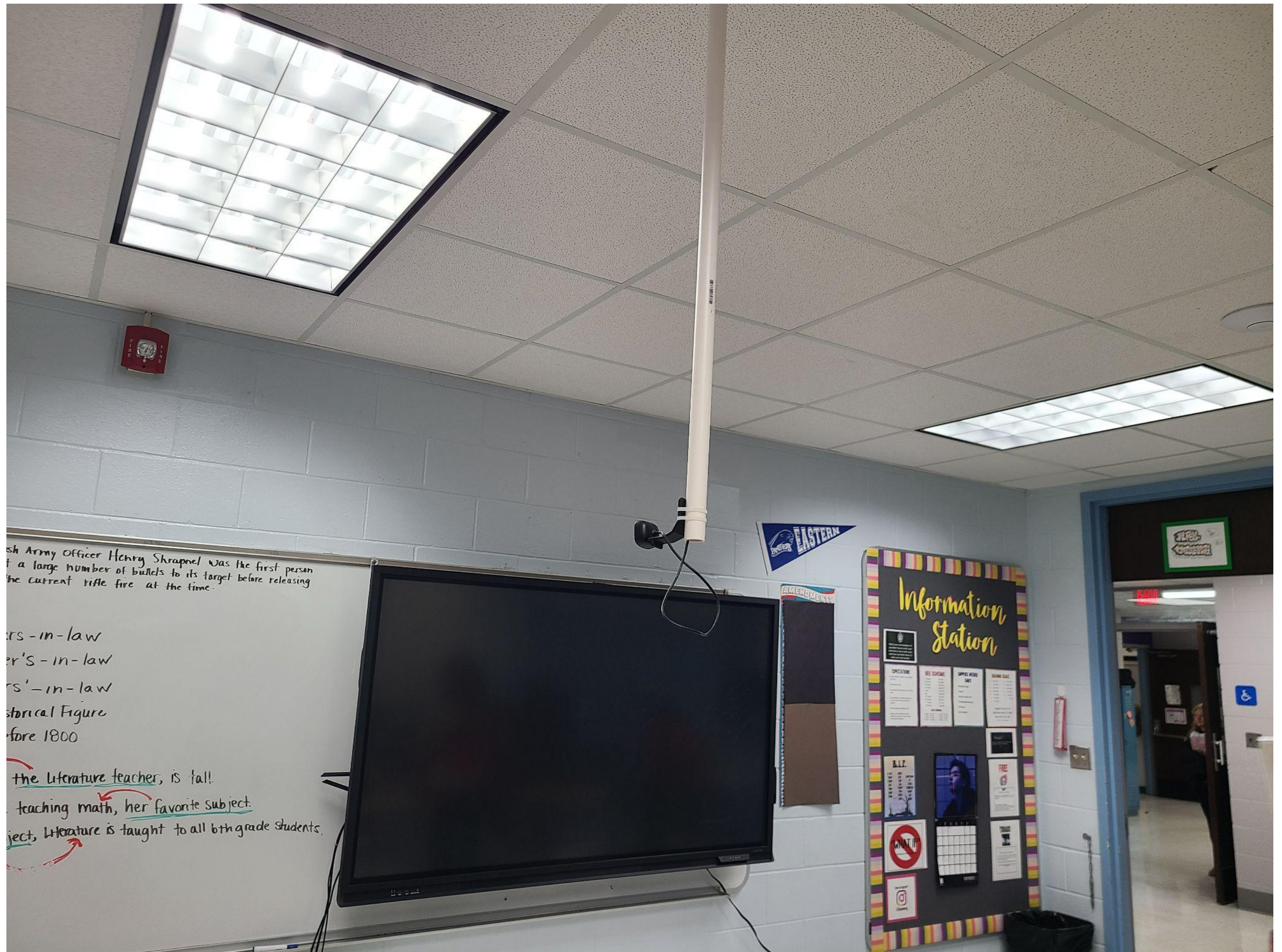
<https://www.yout-ube.com/watch?v=6Jdrx-cv35k>

Utilize cameras in classroom lessons:

- Visualizing demonstrations:
- Student self-assessment:
- Flipped classroom model:
- Remote learning:
- Capturing student presentations:
- Privacy concerns and Parent Consent Issues:
- Technical setup:



Classroom
WebCam mounted
as PeriscopeCam



Scantron Substitute



Scan forms using your phone, a webcam, a document camera, or a mobile device to score and see results instantly.

- Phone scanning is our most popular and accurate camera grading option preferred by our teachers. It doesn't even require an app! Just open your web browser (preferably Chrome), visit app.gradecam.com/login, login, and choose the Scan Forms tile. See Mobile Scanning for additional guidance.
- If you're using a computer, review your scanning settings for the device being used.
- Set yourself up for success by pre-reading form printing best practices to avoid common errors that result in scanning issues down the road.

Record and share lessons.

Document cameras not only allow you to take photos, but you can also record videos.

With a document camera that can record audio and video, you can save an entire lesson about your document, object, or specimen to the doc cam's internal memory, your computer, or an SD card. You can then share recorded lessons with absent students, with your colleagues, or even on YouTube.

Snapshot

Take a snapshot using your camera. And with the newly added "Annotation" feature, you can now first annotate on the live image before taking a snapshot of the annotated image.

Video Recording

With Video Recording, you can record your material as it streams live. You can even pause, mute, or take snapshots during your recordings.

Slow Motion Recording

Record in slow motion

Stop Motion

Create stop motion videos easily with this feature.

Scan Document

You have a few options to scan your documents with this feature. You can go for auto-detection, or manually choosing the area you wish to capture. You can also choose to save the images as jpg or pdf files, change aspect ratios, and/or scan 2 pages at once.

Time-lapse Shooting

With Time-lapse shooting, you can set a time interval and automate a shooting schedule for taking time-lapse video.

Elementary Education Basics

1. Recognize the student of the day or of the week.
2. Create a digital word wall.
3. Assemble a puzzle as a class.
4. Do calendar work to teach the concept of days, months, and years.
5. Perform a puppet show and let students do the same.
6. Share a favorite picture book with the whole class.
7. When reading aloud, use the camera to show students real examples of items mentioned in the book.
8. Drill students on common “sight words” to help them learn the basics of reading.
9. Place two objects under the camera and ask student to identify similarities and differences (or teachers can use the picture-by-picture function to compare a picture with a live image and have the same practice.)
10. Practice sorting and identification

Math

1. Start a pattern and ask students to predict the next element in it.
2. Let students see geometric shapes, so they can readily identify polygons, quadrilaterals, polyhedrons and more.
3. Share advanced math processes.
4. Illustrate fractions with numbers and pictures.
5. Help students work through word problems.
6. Illustrate place values (i.e. units, tens, hundreds, etc.)
7. Count money/coins together as a class.
8. Show students how to use common math tools, such as rulers, compasses and calculators.

Science

1. Do more dissection (owl pellets, cow's eyes, frog, sheep's brain, cat, etc.)
2. Rotate/zoom objects/images without touching them.
3. Use the microscope lens to show students the smallest items close up (such as pond water).
4. Provide advanced anatomy lessons to illustrate skeletal structure, bone articulation, etc.
5. Visualize reflection of lines through a prism.
6. Investigate fossils.
7. Demonstrate a litmus test (acid/base).
8. Freeze action in an experiment at a critical moment for better observation.
9. Share foundational concepts, such as the periodic table, atoms, molecules, elements, bonding, etc.
10. Illuminate geology concepts such as rock types or plate tectonics.

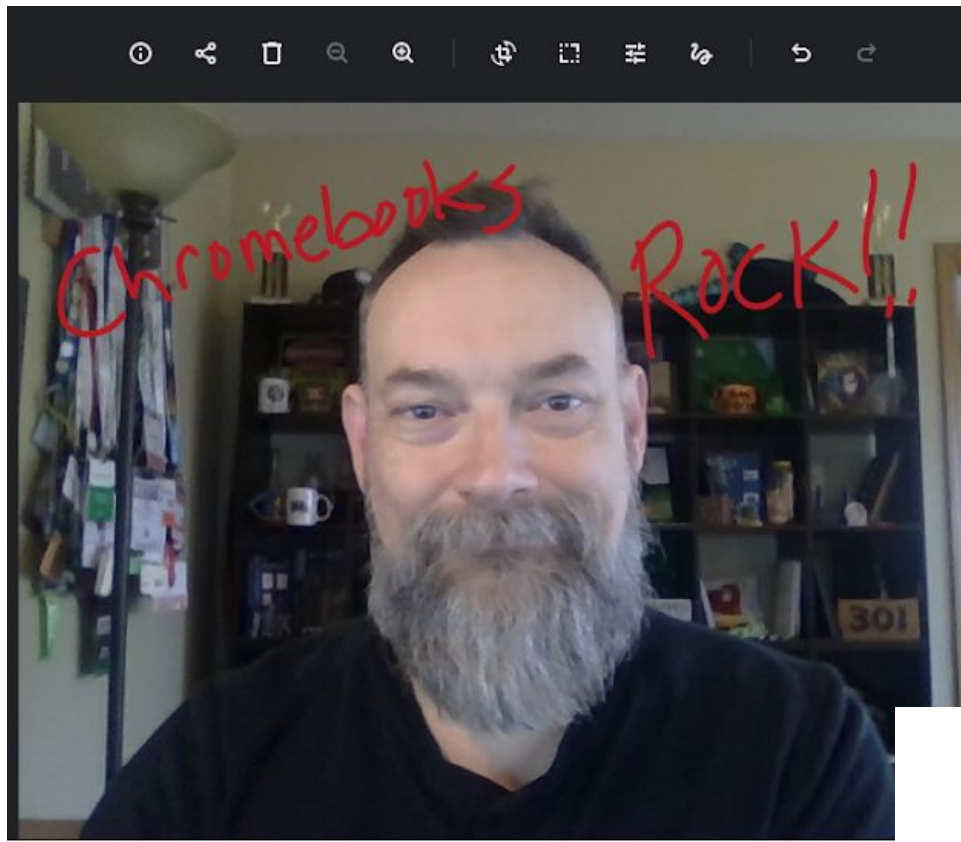
More Examples/Ideas

1. Translate Reading/Phonics/Language Art/Languages
2. Make Music and Art Beautiful
3. Play Games / Puzzles
4. Modeling and Demonstration

Smartphone Utilities

iDocCam & Visualizer
Display Wireless Remote Camera





Chromebooks with Eric Curts

📷 Camera Tools

Launch the Camera app

- Click the Launcher button.
- Locate and open the Camera app.

Settings

- Change the size of the grid, the length of the timer, or the camera resolution.
- Select **"Mirroring"** to flip your image from left to right.
- Select **"Grid"** to view a grid overlay to help line up shots.
- Select **"Timer"** to turn on a 3 or 10-second timer.
- If you have a second camera, select **"Switch camera"** to change between your cameras.

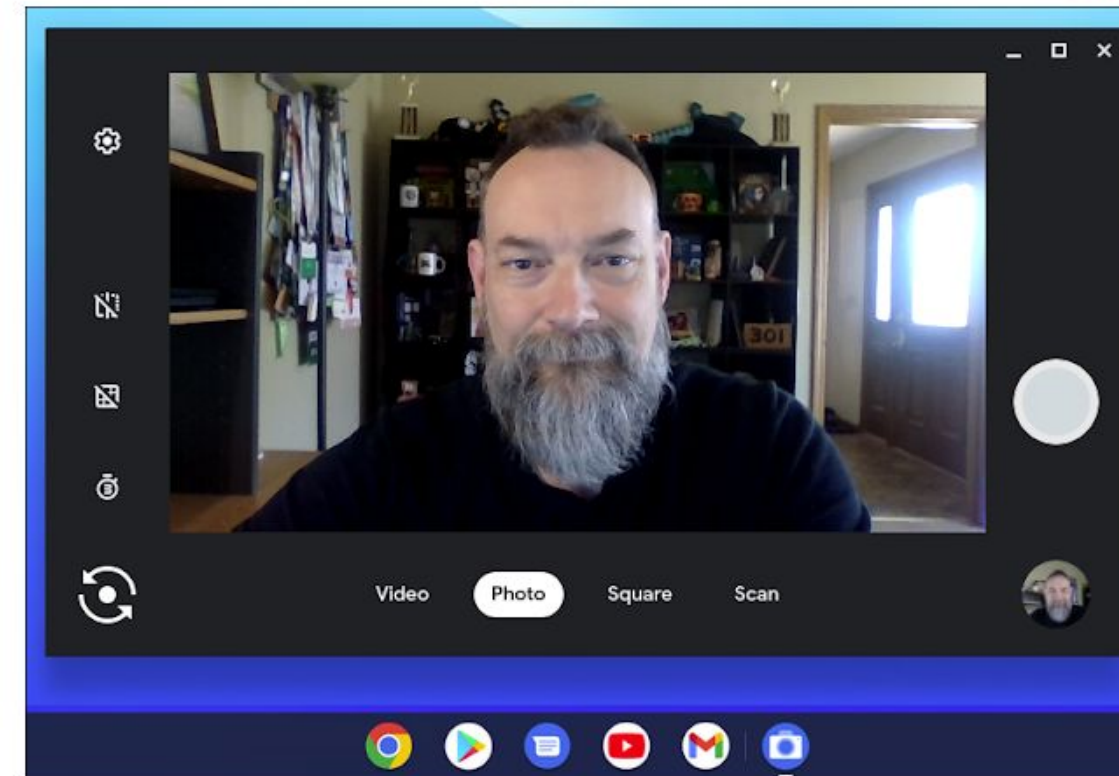
↓ and more

Chromebooks can Do That
November 16, 2022



[https://www.controlaltac
hieve.com/2022/11/chro
mebooks-can-do-that.htm](https://www.controlaltac
hieve.com/2022/11/chro
mebooks-can-do-that.htm)

|



Questions/Discussion/Ideas

Using Cameras in the Classroom

Terence Sullivan
(tsullivan@eiu.edu)

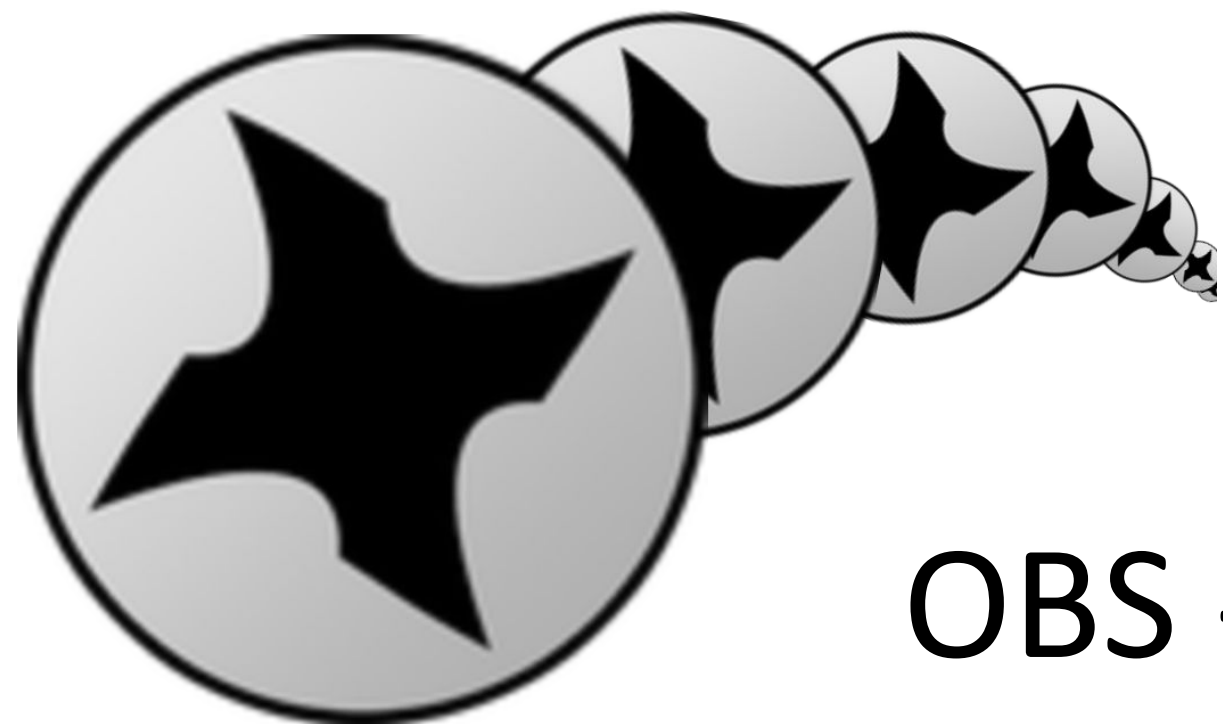


[Slide Deck →](#)



Questions-Comments!

Terence Sullivan (tsullivan@eiu.edu)



OBS - VDO Ninja screen share

LINK = <https://vdo.ninja/?v=snxRoFTL&p=0>

Camera Only Option
iDocCam & Visualizer

Display Wireless Remote Smartphone Camera - need to turn off AP Isolation