Google

Applied Digital Skills

Introduction to our digital skills curriculum g.co/applieddigitalskills







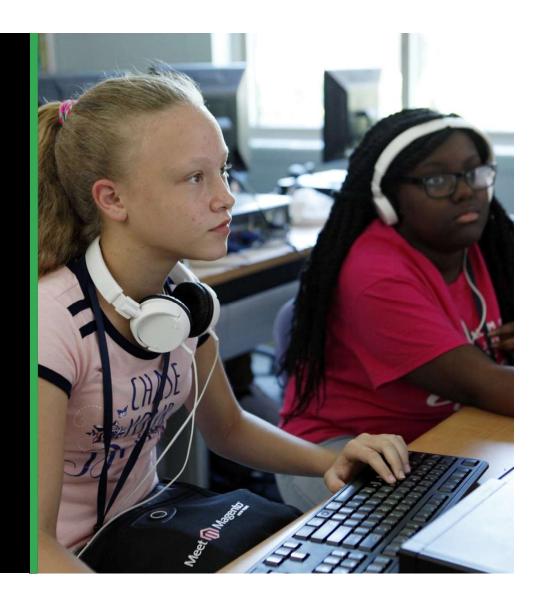
Let's plan a dream vacation...

...while learning spreadsheet formulas.



Let's produce a blockbuster movie...

...while learning document formatting and graphic design.







Let's edit a piece of writing...

...using student-written programming code.

WHAT WE'LL COVER



Welcome

2

Why are we here? What is Applied Digital Skills? 3

Inside the curriculum

4

How to get started



Applied Digital Skills Overview

A curriculum designed to equip students with practical skills that will help them succeed at school, in the workplace and in life — while promoting student engagement in the classroom.

OUR COMMITMENT:

We believe that every student in every school deserves to have access to the tools and skills that will set them up for success in the job market of today — and tomorrow.

CHALLENGE:

The job market is changing — and employers are looking for skills that many students aren't yet confident in.



Percentage of 18- to 25-year-olds who believe their education gives them the skills they need to enter today's workforce

Source: The Economist



Proportion of jobs in 2020 that will require skills that aren't commonly taught today

Source: World Economic Forum



Youth unemployment rate — a sevenyear high

Source: U.S. Department of Labor

OPPORTUNITY:

Technology lessons can build practical skills that prepare students for jobs sectors that are growing fastest.



Percentage of today's job openings that require a high-school degree but not a four-year college degree

Source: National Skills Coalition



Growth rate of digital-based, middle-skilled jobs compared to other kinds of jobs

Source: Burning Glass

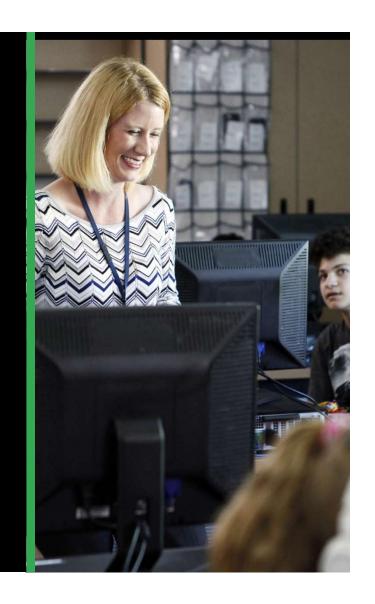


Expected percentage of jobs in 2020 that will require an "engineering mindset"

Source: World Economic Forum

SOLUTION:

Applied Digital Skills is a free, video-based, and online curriculum that prepares students of all ages for the growing number of jobs that require basic digital skills.



Project-based learning

Video curriculum provides stepby-step instruction with pause/rewind/fast-forward capabilities

With over 120+ hours of lessons, there's a fit for any class or subject

Enables teachers to interact with students in small groups



Digital skills

Coding

Spreadsheets

Data visualization

Graphic design

Website publishing

Document formatting

Internet search

FIle organization



Practical life skills

Four C's

Organization

Budgeting

Event planning

Research

Group decision-making

Creating presentations

Resume writing



















Script

Slides

Search

Sheets

Maps

Mail

Docs

Sites

Forms

Aligned with state standards

Designed by teachers, for teachers

Reviewed by the International Society for Technology in Education

Already in use by more than 200,000 students



I like how the curriculum demonstrates that tech is in all fields. It gets kids to create and connect what they are learning to real life.

- High school library media specialist



Lessons teach students how to think and work

Communication

Collaboration

Creativity

Critical thinking



The consistent feedback between peers is such a vital benefit. Students can collaborate and leave comments digitally, and they don't have to raise their hand and worry about what someone else will say.

This teaches them to work together not just as a class, but as a community.

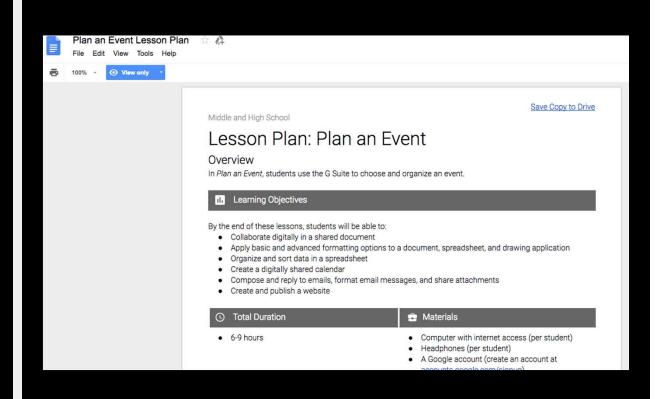
- Seventh-grade science teacher

Free, flexible, readyto-use

Modular lessons can be taught as full curriculum or one-off enrichment

Lessons include teacher resources like customizable lesson plans and rubrics

Video-based learning is selfdirected and adaptable to each student's pace



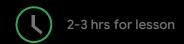






Inside the curriculum

A look at the ways teachers across the world are using Applied Digital Skills in their classrooms.



If-Then Adventure Stories

POPULAR IN

Homeroom and English courses

PRACTICAL LIFE SKILLS

Storyboarding and group decision making

DIGITAL APPLICATION SKILLS

Collaboration through comments in Docs and use of hyperlinks in Slides to tell a story





45 - 90 minutes for lesson

Quick-start teacher guide available

Create a Presentation "All About a Topic"

POPULAR IN All subjects

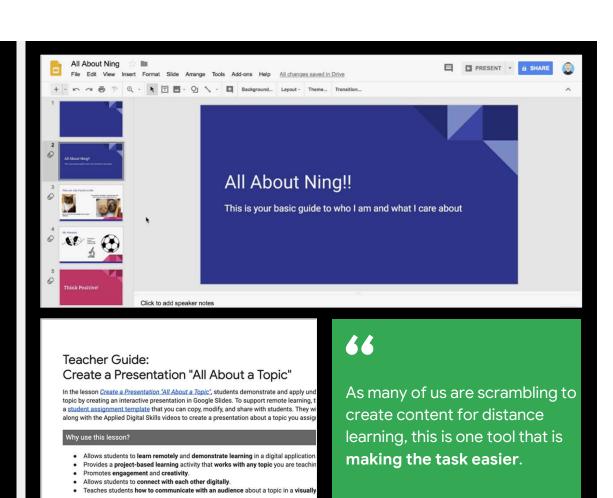
PRACTICAL LIFE SKILLS

Research and present about a chosen topic

DIGITAL APPLICATION SKILLS

Presentation formatting, sharing research, slide design

REMOTE TEACHING RESOURCES Teacher guide for getting started quickly



What do students do in this lesson?

. Students apply their understanding of a topic to create a presentation using text, in

• They digitally share their presentation with a classmate. · They then comment on each other's presentations.

- Teacher K.V.

Make Art with Google Sheets

POPULAR IN

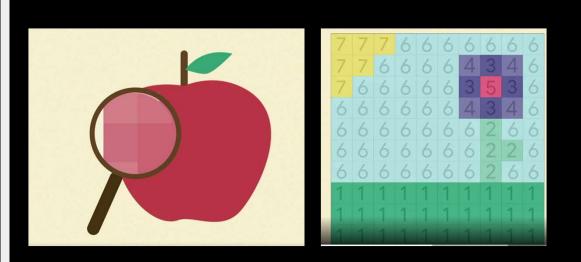
Technology courses

PRACTICAL LIFE SKILLS

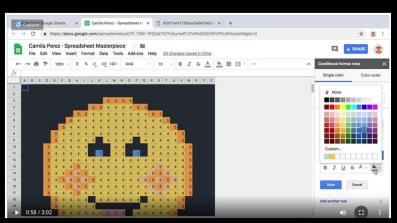
Design thinking, organizing data, creative expression

DIGITAL APPLICATION SKILLS

Create and set up a spreadsheet, search the internet, data visualization









Plan an Event

POPULAR IN

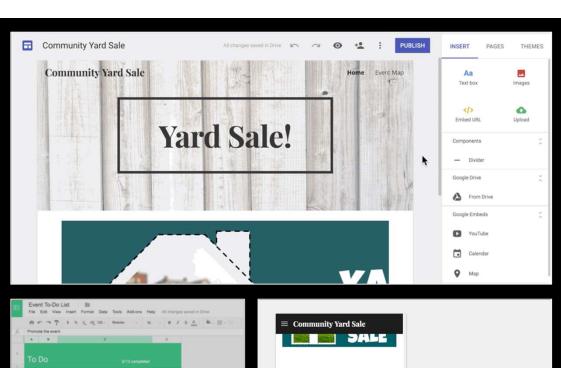
Government and technology courses

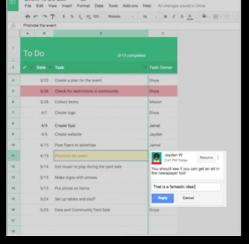
PRACTICAL LIFE SKILLS

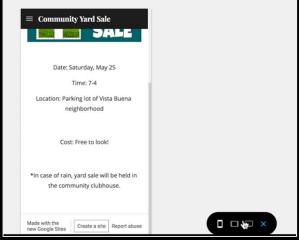
Choose, plan and organize an event, effective communication

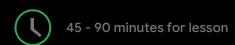
DIGITAL APPLICATION SKILLS

Digital publishing, document formatting, spreadsheet skills









Research and **Organize Information About Colleges in Google Sheets**

POPULAR IN

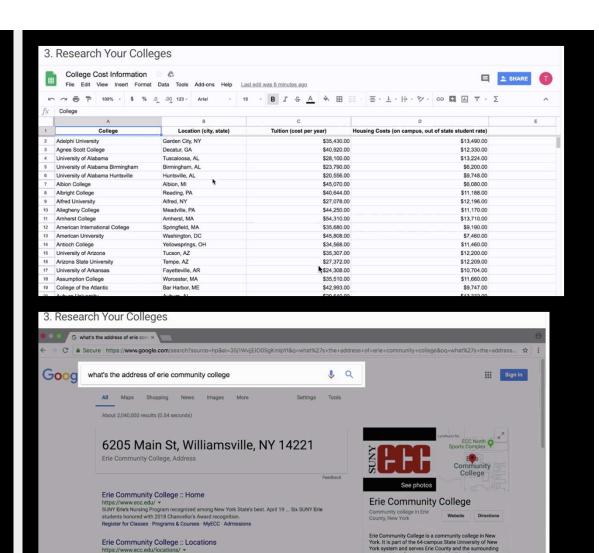
All subjects

PRACTICAL LIFE SKILLS

Organize, compare, and sort data

DIGITAL APPLICATION SKILLS

Create and set up a spreadsheet, search the internet, create hyperlinks, sort information.



Erie Community College :: Locations



Test Drive Applied Digital Skills

Learn how to set up your class and begin teaching Applied Digital Skills in just a few short steps.

STEP INTO THE SHOES OF an Applied Digital Skills STUDENT

One of the best ways to learn about Applied Digital Skills is to experience the curriculum as a student.

In this section you will:

- **Explore** a Applied Digital Skills class as a **student**
- **Test drive** a lesson from the Curriculum Page
- Reflect on learnings as a student



We understand that it is not just about coding. It's about art and music and being creative... We want to teach students that this is not boring. It's going to be fun and we'll show them different ways to think and be creative.

Martin Sung, college student and Applied Digital Skills volunteer Leon County Schools, Tallahassee, FL

STEP 1: Sign in to the website g.co/applieddigitalskills

You will need a Google account to sign in.
If you do not already have a Google account, you can create one for free at

www.accounts.google.com/signup

Google

Applied Digital Skills

Applied Digital Skills

Teach and learn practical digital skills using our free project-based video curriculum

STEP 2: Choose your role as a STUDENT

We will change you back before you leave! 😂



What best describes you?



I'm a student



I'm a teacher

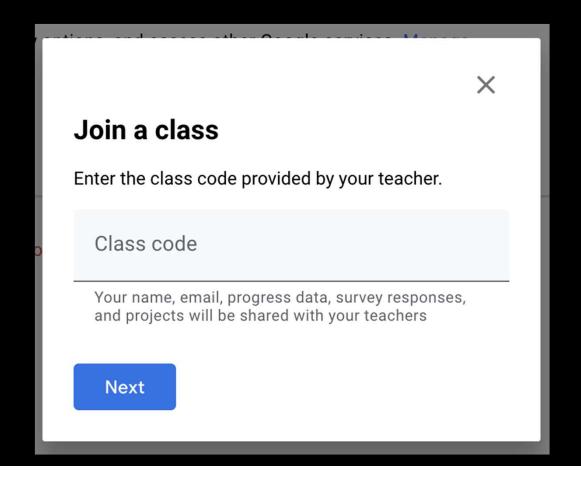
Class Code:

Access as a learner using this class code:

Class Code: 3dczwp



STEP 3: Enter the course code provided by your instructor



TEST DRIVE

Visit g.co/applied digital skills and visit the curriculum Page. Browse the lessons and choose the one(s) you'd like to teach to your students.



Start the year by incorporating digital skills into your classroom. These lessons help students get organized, plan study schedules

G Suite Certification Exam Prep

Lessons you can use to prepare for the G Suite certification exam

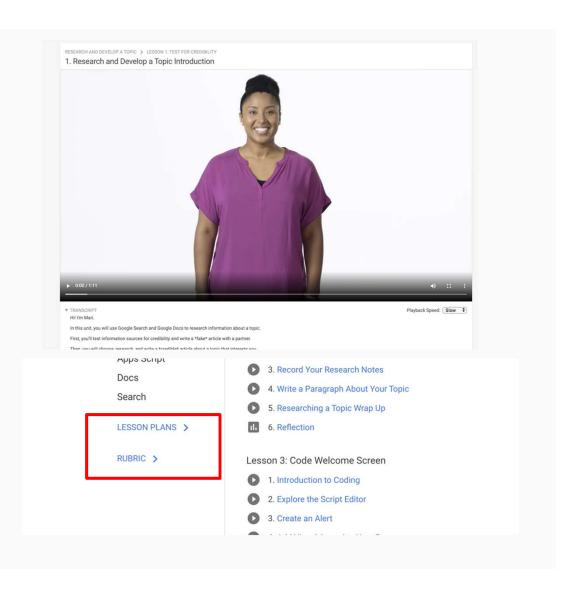
Develop business skills and get started as an entrepreneur

TEST DRIVE

Find the Applied Digital Skills Lesson right for your classroom

Watch the first at least one of the instructional video to get a feel for the content.

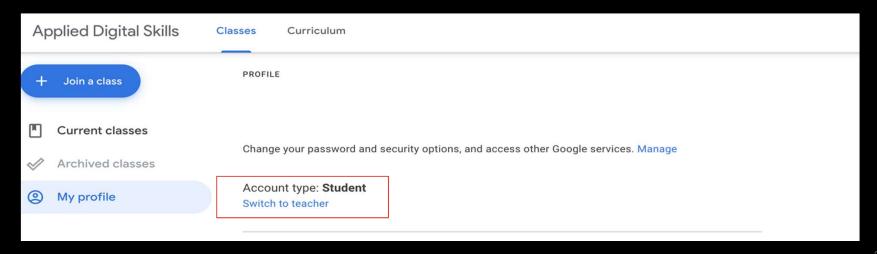
Find the Lesson Plans and student work samples for that lesson to get a detailed look at each lesson.



Switching Back to a Teacher Profile

Changing your role from Student to Teacher

- 1. Sign in and go to the 'Classes' tab.
- 2. Click on the Student button in the top right hand corner of the page.
- 3. Select 'My Profile' from the drop down menu.
- 4. Under the Account type, click on the Switch to teacher link





Small-Group Reflections

Where would Applied Digital Skills be most impactful for you and your learners?



Reflection Questions

Which lessons do you think will help your students be most prepared for a 21st-century workplace?

Identify a unit of study or a time of year when you think one of these lessons would be appropriate?

What digital skills do you think your students are most interested in learning?

Is there a state standard or school initiative where any one of these lessons might align?



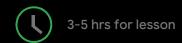
Thank you!

RESOURCES & QUESTIONS:

To get started, go to <u>g.co/applieddigitalskills</u> and Sign In.

- g.co/AppliedDigitalSkills
 Website and Curriculum
- g.co/AppliedDigitalSkills/Resources
 Teacher resources
- g.co/AppliedDigitalSkills/Help Help and Troubleshooting





Research and Develop a Topic

POPULAR IN

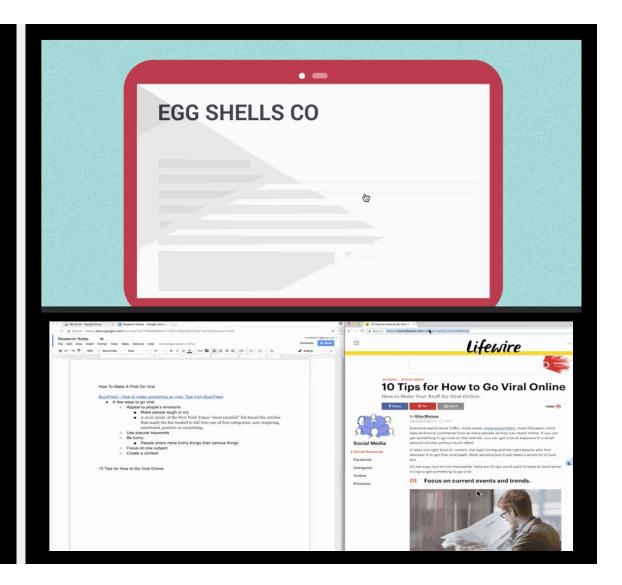
Language arts, current events, library

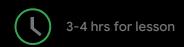
PRACTICAL LIFE SKILLS

Identify credible online sources and make an interactive research document

DIGITAL APPLICATION SKILLS

Internet search, coding, document formatting





Technology, Ethics, and Security

POPULAR IN

Government and technology courses, media center

PRACTICAL LIFE SKILLS

Research risks, explore solutions, and create a report to communicate findings

DIGITAL APPLICATION SKILLS

Internet search, organize and present findings using a digital application

The World of Online Gaming

Almost half of all people who use the internet play games online. With nearly 700 million users, internet gaming brings together people from all over the world. But gaming also poses risks. Play re are exposed to inappropriate language and behavior. Some spend excessive amounts of time in virtual reality. The online gaming world also includes cyberbullies, online predators, and hackers who find easy targets in gaming communities.

CHOOSE

Passwords and Personal Security

Passwords are the most basic way to keep your data private, but they are frequently targeted by hackers. If you figure out someone's password, you have instant access to their personal information--name, address, bank accounts, photos, credit cards, and more. Technology used to access and leak passwords gets better every day. Most people still make password errors that put their information at risk. In today's digital world, even the strongest passwords may not offer enough protection.

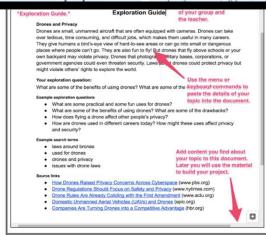
CHOOSE

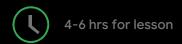
Pros and cons of wearable technology

Technology has become really tiny and

Being a good digital citizen

People all over the world can communicate using the internet, often without knowing





Guide to an Area

POPULAR IN

Math classes, foreign language classes

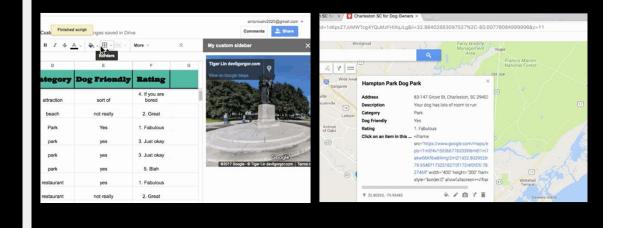
PRACTICAL LIFE SKILLS

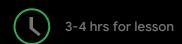
Research and organize information, data representation

DIGITAL APPLICATION SKILLS

Organize data using Sheets, share information using Maps

Location Name	Address	Description	Category	Dog Friendly	Rating -		
Hampton Park Dog Park	83-147 Grove St, Charleston, SC 29403	Your dog has lots of room to run	Park	Yes	-		
Charleston Farmer's Market	329 Meeting St, Charleston, SC 29403	Good food very crowded	attraction	sort of			
Colonial Lake	46 Ashley Ave., Charleston, SC 29401	leashed walk around lake, recently landscaped	attraction	yes			
Magnolia Plantation and Gardens	3550 Ashley River Rd, Charleston, SC 29414	pretty flowers	attraction	not really			
Folly Beach	101 E Arctic Ave, Folly Beach, SC 29439	Dogs allowed October 1-April 30	beach	not really			
Hazel Parker Park Dog Run	70 E Bay St Charleston, SC, US	fenced in dog park	park	yes			
James Island County Park	871 Riverland Dr, Charleston, SC 29412	water for swimming and trails for leashed walks	park	yes			
White Point Garden	2 Murray Blvd, Charleston, SC 29401	beautiful and historical	park	yes	,		
Bohemian Bull	1531 Folly Rd, Charleston, SC 29412	fire pit, games	restaurant	not really			
FUEL Charleston	211 Rutledge Ave. Charleston, SC 29403	good burgers, outdoor patio	restaurant	yes			
The Barrell	1859 Folly Rd, Charleston, SC 29412	unleashed dogs allowed on back patio	restaurant	yes			
Woof Gang Bakery	341 King St, Charleston, SC 29401	Homemade dog biscuits!	restaurant	yes			





Technology's Role in Current Events

POPULAR IN

English, government, history classes

PRACTICAL LIFE SKILLS

Analyzing current events, communicating findings

DIGITAL APPLICATION SKILLS

Communicate information research through Search using Docs, Sites, Slides

The World of Online Gaming

Almost half of all people who use the internet play games online. With nearly 700 million users, internet gaming brings together people from all over the world. But gaming also poses risks. Players are exposed to inappropriate language and behavior. Some spend excessive amounts of time in virtual reality. The online gaming world also includes cyberbullies, online predators, and hackers who find easy targets in gaming communities.

CHOOSE

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CHOOSE

Pros and cons of wearable technology

Self-driving vehicles will have a big impact on the millions of truck drivers currently employed worldwide

Being a good digital citizen

People all over the world can communicate using the internet often without knowing

Are you working by yourself, or as a group?

BY MYSELF AS A GROUP

2 Choose a topic to work on

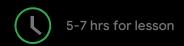
_

Write an exploration question

Explore your topic

6 Create your project

Communicate



Plan and Budget

POPULAR IN

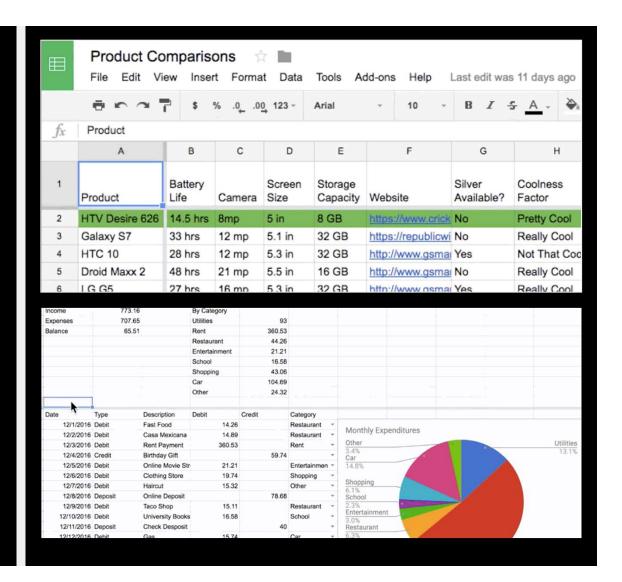
Math and homeroom classes

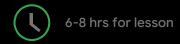
PRACTICAL LIFE SKILLS

Make financial decisions by analyzing longterm spending, comparing costs, and planning for major purchases

DIGITAL APPLICATION SKILLS

Analyze financial data in Sheets





Create an Editing Tool with Programming

POPULAR IN

Math, computer science and English classes

PRACTICAL LIFE SKILLS

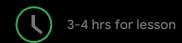
Improve writing, iterative development

DIGITAL APPLICATION SKILLS

Basic coding concepts with Apps Script, conveying concepts with Docs and Slides

What is a Hero? Its a way good thing to be a hero, especially in literature. The epic poem "Beowulf" captures memore can be a hero. Beowulf is heroic, especially when he fights Grendel and the dragon. These are two good examples of heroism. Its easy to find examples in this epic poem that world show how many good qualities add up to make Beowulf eroic. Beowulf has mething special that makes him be a hero. The characters in "Beowulf" will follow a heroic code that includes me characteristics like being courteous and polite and fighting courageously. With that being said, Beowulf stands up for his family members and his subjects. Its what makes him be heroic. He is strong, brave, and the full of courage that he becomes a smaller great king as well as a great hero. Another way heroic example from this epic poem is the scene where Beowulf enters a swimming contest with Breca. They both can swim fast, but Beowulf can would swim faster because he is heroic and strong. So, this example shows what it takes to be a hero according to the well-defined heroic code that is used throughout the book. Beowulf is stoled humble, though, he he

```
function findText(item) {
 //add the parameter to the log to test that it is working as expected
 Logger.log(item)
//create the variable to show the results of finding the text
 // search for the text stored in the item variable
 searchResult = DocumentApp.getActiveDocument().getBody().findText(item)
 //log the results of the search for testing
 Logger.log(searchResult)
 //while the search results for very are not empty do the following
 while (searchResult !== null) (
 //change the background color of the search result text to red
   sear ch Result.get Element().as Text().set Background Color(sear ch Result.get Start Offset(), sear ch Result.get End Offset Inclusive(), background) \\
   //find text again that is stored in the item variable
   searchResult = DocumentApp.getActiveDocument().getBody().findText(item,searchResult)
 //end of the loop
function highlightProblem(){
 findText("very")
  //highlight the word "totally"
```



Technology at Work

POPULAR IN

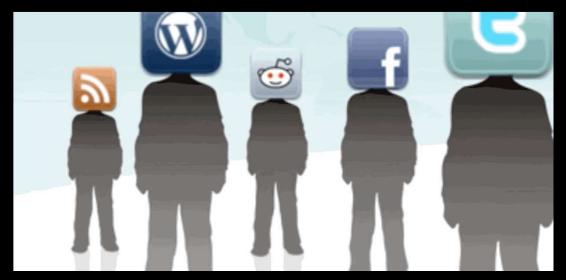
Technology, English and government classes

PRACTICAL LIFE SKILLS

Researching topics and communicating your findings

DIGITAL APPLICATION SKILLS

Communicate with Docs, Slides, Sites or Sheets, and conduct Search



Veterinary Jobs and Technology

It takes a lot to ensure that animals receive the best care possible. Veterinarians, technicians, managers diagnose and treat animals. They must keep accurate records, handle billing and ordering, and schedule patient visits. Today's veterinarian offices depend on technology to run smoothly. This opens up exciting opportunities for those interested in both tech and animal care.

CHOOSE

Technology in Farming

As populations grow, we need farms to produce food more efficiently, safely, and cost effectively. Technology fuels innovations in agriculture and helps large and small farms streamline business operations and produce more crops. Computer programming, data analysis, 3-D modeling, and software design skills are great assets for a successful future in agriculture. The farms of the future will depend on technology to run, and farming professionals will need a strong technology background.

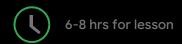
CHOOSE

Technology Jobs and the Military

The U.S. military depends on computers

The Field of Cyber Security

As cyber threats grow more complex and



Pick the Next Box Office Hit

POPULAR IN

Math and history classes

PRACTICAL LIFE SKILLS

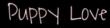
Analyze trends and make predictions with

DIGITAL APPLICATION SKILLS

Data analysis and visualization using Sheets and Apps Script

Movie Title	Release Date	Wikipedia UR	Genre (1)	Genre (2)	Director (1)	Director (2)	Cast (1)	Cast (2)	Cast (3)
10 Cloverfield Lane	2016-03-08	https://en.wiki	Thriller	Horror	Dan Trachtenberg		Mary Elizabeth Wir	John Goodman	John Ga
13 Hours: The Secret Soldiers of	2016-01-15	https://en.wiki	Action	Thriller	Michael Bay		James Badge Dale	John Krasinski	Toby St
2 Guns	2013-08-02	https://en.wiki	Action	Crime	Baltasar Kormákur		Mark Wahlberg	Denzel Washingto	or Paula P
21 Jump Street	2012-03-16	https://en.wiki	Comedy	Action	Phil Lord	Chris Miller	Jonah Hill	Channing Tatum	Ice Cub
22 Jump Street	2014-06-04	https://en.wiki	Action	Comedy	Phil Lord	Chris Miller	Channing Tatum	Jonah Hill	Ice Cub
300: Rise of an Empire	2014-03-04	https://en.wiki	Action	Fantasy	Noam Murro		Rodrigo Santoro	Eva Green	Sullivan
42	2013-04-12	https://en.wiki	Biography	Drama	Brian Helgeland		Harrison Ford Chadwick Bosema		ar Christop
71	2014-02-07	https://en.wiki	Action	Drama	Yann Demange		Jack O'Connell	Richard Dormer	Sean H
90 Minutes in Heaven	2015-09-11	https://en.wiki	Drama		Michael Polish		Hayden Christense Kate Bosworth		Dwight
A Good Day to Die Hard	2013-02-14	https://en.wiki	Action	Thriller	John Moore		Bruce Willis	Jai Courtney	Sebasti
A Haunted House	2013-01-11	https://en.wiki	Comedy	Horror	Michael Tiddes		Marlon Wayans	Nick Swardson	David K
A Haunted House 2	2014-04-18	https://en.wiki	Comedy		Michael Tiddes		Marlon Wayans	Jaime Pressly	Essence
A Long Way Down	2014-02-10	https://en.wiki	Comedy		Pascal Chaumeil		Toni Collette	Pierce Brosnan	Aaron F
A Most Violent Year	2014-11-06	https://en.wiki	Action	Crime	J. C. Chandor		Oscar Isaac	Jessica Chastain	Alessan
A Most Wanted Man	2014-01-19	https://en.wiki	Thriller		Anton Corbijn		Philip Seymour Ho	Rachel McAdams	Robin V
A Thousand Words	2012-03-09	https://en.wiki	Comedy		Brian Robbins		Eddie Murphy	Kerry Washington	Cliff Cur
A Walk Among the Tombstones	2014-09-19	https://en.wiki	Crime	Drama	Scott Frank		Liam Neeson	Dan Stevens	Ruth W
A Walk in the Woods	2015-01-23	https://en.wiki	Adventure	Comedy	Ken Kwapis		Robert Redford	Nick Nolte	Emma 1
Abraham Lincoln: Vampire Hunte	2012-06-22	https://en.wiki	Horror	Action	Timur Bekmambet	ov	Benjamin Walker	Dominic Cooper	Anthony





Puppy Love

- 7• Romance movies have an almost 50% return on investment
 3 of the 5 leading actors in the movie have average ROIs of over 50% (89%, 81%, and
- . The budget is fairly small (\$40 million), and we think we could make a good profit because everyone likes dogs!

Successful Movies:

INITIAL THOUGHTS: Star Wars and other sci-fi/space movies have been really successful lately. We think this would be, too.

DATA:

- 1. Lupita Nyongo has a terrific return on investment: 76%
- 2. But there is no information on the other actors, which makes it hard to tell if they are popular.

INITIAL THOUGHTS: Has "The Rock". Movies with The Rock are ALWAYS successful!

1. The Rock IS wildly successful. He has nearly a 100% return on investment in all of his



Equal Access to Technology

POPULAR IN

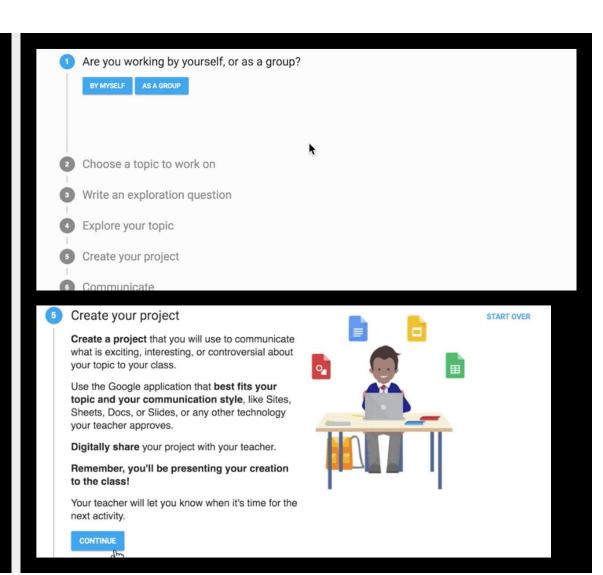
Technology and English classes

PRACTICAL LIFE SKILLS

Researching topics, and communicating findings effectively with your audience

DIGITAL APPLICATION SKILLS

Collaborate and communicate using Docs, Sheets, Sites and/or Slides





Create a Resume in Google Docs

POPULAR IN

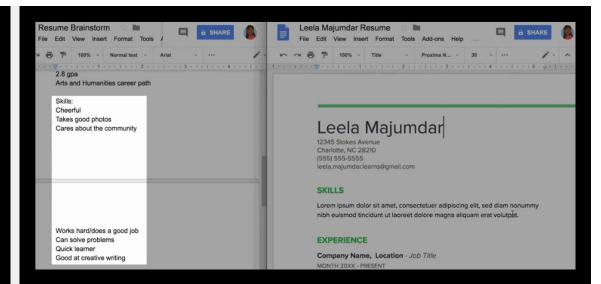
Technology, English and homeroom classes

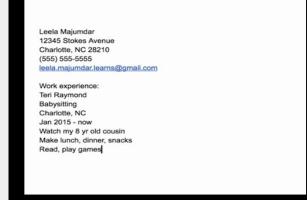
PRACTICAL LIFE SKILLS

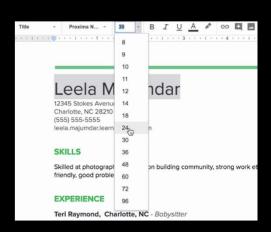
Develop a resume that stands out

DIGITAL APPLICATION SKILLS

Digital collaboration, document formatting, and effective communication with Docs









Research and Organize Information About Colleges in Google Sheets

POPULAR IN

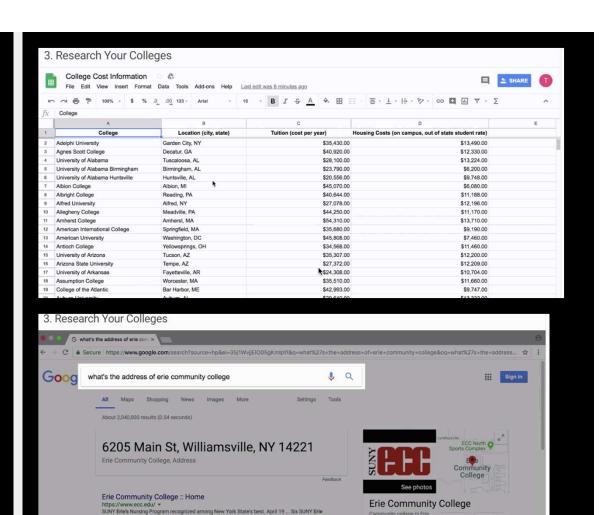
All subjects

PRACTICAL LIFE SKILLS

Organize, compare, and sort data

DIGITAL APPLICATION SKILLS

Create and set up a spreadsheet, search the internet, create hyperlinks, sort information



Erie Community College is a community college in New York. It is part of the 64-campus State University of New York system and serves Erie County and the surrounding

students honored with 2018 Chancellor's Award recognition.
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Erie Community College :: Locations