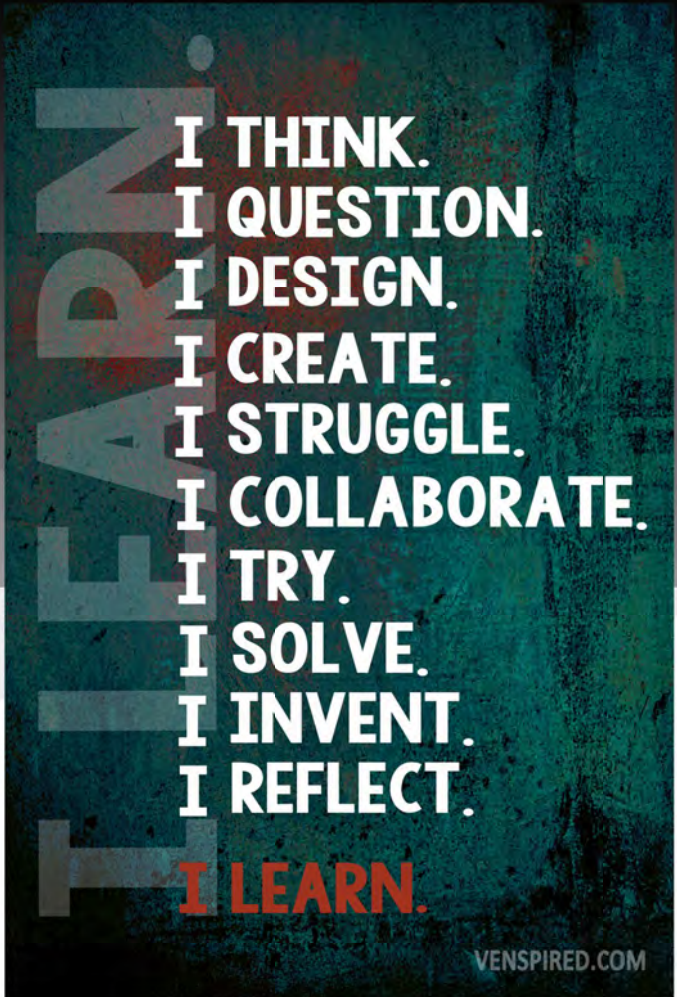


*Today's Classrooms,
Tomorrow's Leaders...
Technology as a Tool*

*Laura Rahn
Middle School English Teacher
Blue Ridge Middle School
Purcellville, VA*



Who Am I?

LCPS teacher, having just finished my
25th year teaching

*I am a teacher. I am a student.
I am a facilitator and a guide. I
am passionate about providing
students with opportunities to
love learning!*

At the end of today's session...

- You will be able to identify how today's classrooms are different from the classrooms that we grew up in.
- You will understand why it is important to use technology tools with students in today's classrooms.
- You will understand the LCPS initiatives of One to the World, PBL and 21CLD
- ...And hopefully you have found a new tech tool or two to take home and explore – and possibly share with others. 😊

Yesterday's classrooms



early 1900's



1965



1980

Today's classrooms



What is happening in Loudoun County Public Schools?

You can teach a
student a lesson for
a day; but if you
can teach him to
learn by creating
curiosity, he will
continue the
learning process as
long as he lives.

Clay P. Bedford

One to the World



SIGNIFICANT CONTENT & IMPORTANT COMPETENCIES

One to the World student work would help students master the significant content and important competencies of the curriculum, such as critical thinking, communication, collaboration, as well as creativity and innovation. *One to the World* work would tie directly to our curriculum.

AUTHENTIC PROBLEMS & TASKS in THE WORLD

One to the World student work would focus on authentic problems and tasks in the world.

PRODUCT, PERFORMANCE, SERVICE OR EXHIBITION for THE WORLD

Students would create value for an audience beyond the teacher. Student creations could include products, performances, services, and exhibitions of work relating to authentic problems and tasks in the world.

CONNECTED with THE WORLD

Students could improve the quality of their work and amplify the impact of their work through three types of connections:

1. connections to valuable tools and information;
2. connections to others with whom they collaborate; and
3. connections with an audience beyond the teacher.

When appropriate, students would use technology (school-owned or personal devices) to make these connections with the world.

Alan November was an early user of the phrase, "One to the World." In articulating the key elements of *One to the World*, Eric Williams was greatly influenced by the work of the Buck Institute for Education (BIE) and Phil Schlechty.

LCPS is focused on providing students with opportunities to reach beyond the classroom as they learn.

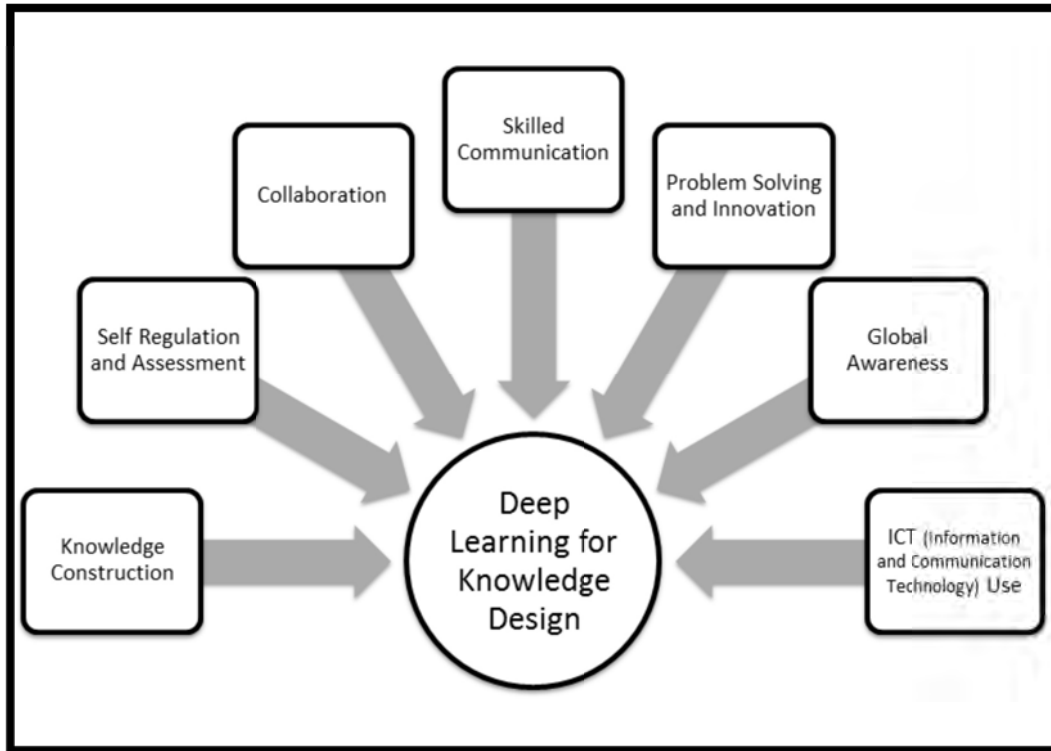
Students learn to interact with an audience greater than just the teacher.

PBL

Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to a complex question, problem or challenge.

- **Key Knowledge, Understanding, and Success Skills** - The project is focused on student learning goals, including standards-based content and skills such as critical thinking/problem solving, collaboration, and self-management.
- **Challenging Problem or Question** - The project is framed by a meaningful problem to solve or a question to answer, at the appropriate level of challenge.
- **Sustained Inquiry** - Students engage in a rigorous, extended process of asking questions, finding resources, and applying information.
- **Authenticity** - The project features real-world context, tasks and tools, quality standards, or impact – or speaks to students' personal concerns, interests, and issues in their lives.
- **Student Voice & Choice** - Students make some decisions about the project, including how they work and what they create.
- **Reflection** - Students and teachers reflect on learning, the effectiveness of their inquiry and project activities, the quality of student work, obstacles and how to overcome them.
- **Critique & Revision** - Students give, receive, and use feedback to improve their process and products.
- **Public Product** - Students make their project work public by explaining, displaying and/or presenting it to people beyond the classroom.

21st Century Learning Design



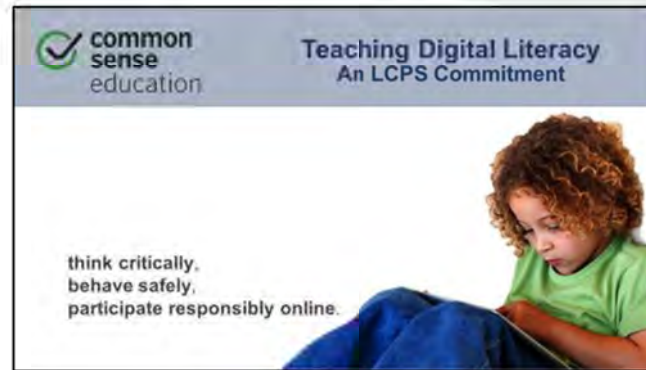
21st century learning design focuses on creativity, innovation, collaboration, and communication skills.

Bring Your Own Technology

BYOT

Beginning in 2015, Loudoun County Public Schools will implement BYOT, Bring Your Own Technology, which encourages students to bring their personal technology tools to school for learning. As students utilize their personal technology devices in school, they can learn new ways to use them for collaborating and interacting with their teachers and each other to research information, solve complex problems, create original products, and publish their work.

BYOT - Digital Citizenship



To leverage technology for learning, students need to understand how to think critically, behave safely, and participate responsibly online. As a result of our commitment to student safety and learning, all LCPS schools will implement the

nationally-recognized Digital Citizenship curriculum available through Common Sense Media

. Participating BYOT schools will earn Digital Citizenship Certification through implementation of the Common Sense curriculum.

CAMS

<https://vimeo.com/114070166>



Genius Hour

**Genius Hour is a time to allow students to create, design and research something that they are passionate about.
They are in charge of their learning.**

The idea originated in corporate America, specifically with the Google Corporation providing employees with 20% time (or a “Genius Hour”) to innovate and research a topic that they are interested in.

*Learning is experience.
Everything else is just information.*

-- Albert Einstein



“Really what was hardest to truly understand was genius hour, but, it was kinda fun. We were left with no directions, no topic and few guidelines. However it really made the most sense because you set your own rules. Such as, how you presented it, when you presented it, what’s your topic, and what does it mean to you... Genius hour proposed challenges for us and is the tip of the iceberg for what I believe is to come in later years.”

- Will, 7th grade student

Genius Hour



Student Engagemen

Laura Rahn @rahnlaura Apr 27

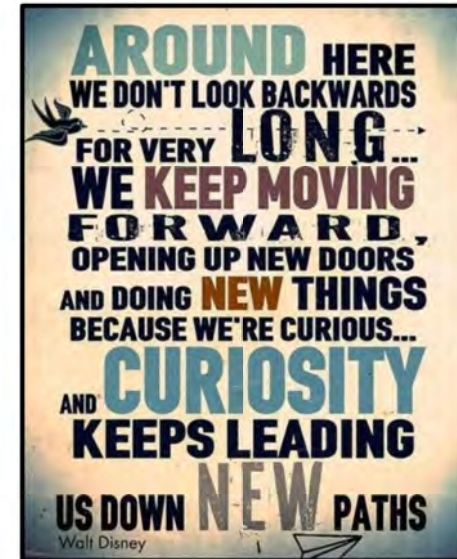
Ss researching topics of their choice for #GeniusHour, fully engaged and in the zone! #brmOTTW



← ↻ ★ 1 ⋮



"I think the most important experience in English this year was Genius Hour. I believe this because we had the opportunity to research something of our own choice and present it using our own creative way..." - Kevin



Students sharing with the world

- Email Experts to ask ?'s
- Tweeting about our adventures
- Creating "Coming Soon" commercials to share
- Interview experts

 Laura Rahn @rahnlaura · Apr 28

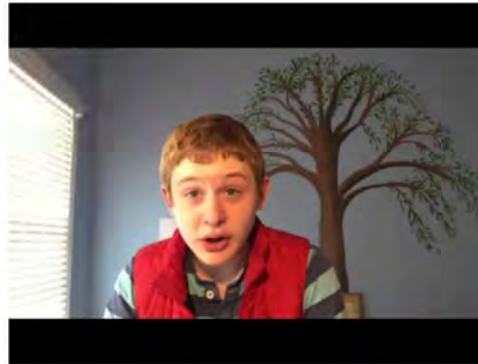
Ss connect to the world, emailed experts for #GeniusHour and got replies-do dogs have a desire to be normal?#brmOTTW

Please relay the following response to your student. Thank you.

Arlene

There is probably no scientific answer to this, but I do not think dogs try to be "normal". Dogs do what they think is the right thing to do and what they have been trained to do. In a pack in the wild they follow a pack structure of dominance with the rest of the dogs following the lead of the top dog in the pack which is generally the physically strongest dog, but may in some circumstances be the smartest dog. To them "normal" is the best way to get along with other dogs and thrive in their pack structure. They learn this by rewards of getting food when they fit in well and corrective bites from other dogs when they do not fit in well. In the domestic situation they learn to judge from the facial features, behavior and voice tones of their owners and behavior of other dogs that they are around how to behave. I do not know if that answers your question, but that is what I think you are asking.

Allen Sisson, DVM, DACVIM (Neurology)
Staff Neurologist



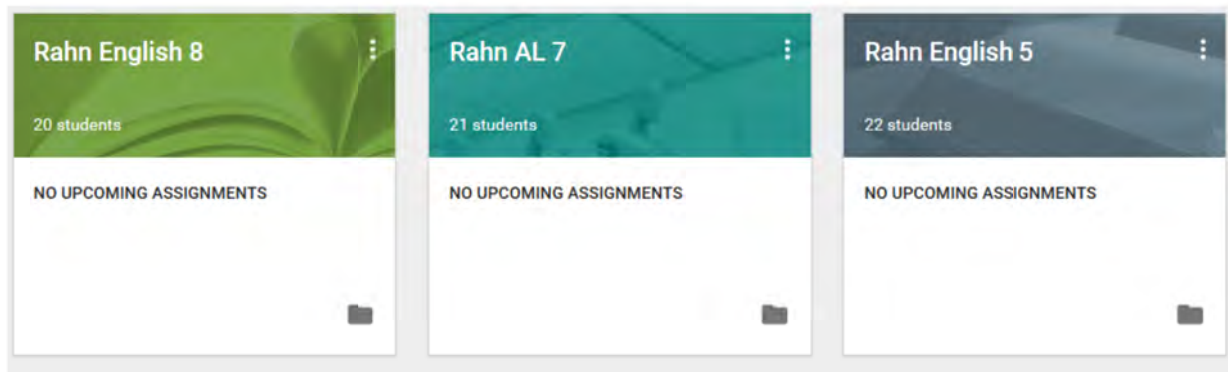
Google Classroom



Welcome to Classroom!

Google Classroom is a blended learning platform for schools that aims to simplify creating, distributing and grading assignments in a paperless way.

Classroom is designed to help teachers create and collect assignments paperlessly, including time-saving features like the ability to automatically make a copy of a Google document for each student.



Tech Tools used in schools

Today's students see technology as a part of their lifestyle. They are not threatened, and many times they are more comfortable with technology in the classroom than their teacher might be! It is our job to meet these students where they are and help them move further, as they become our future leaders.

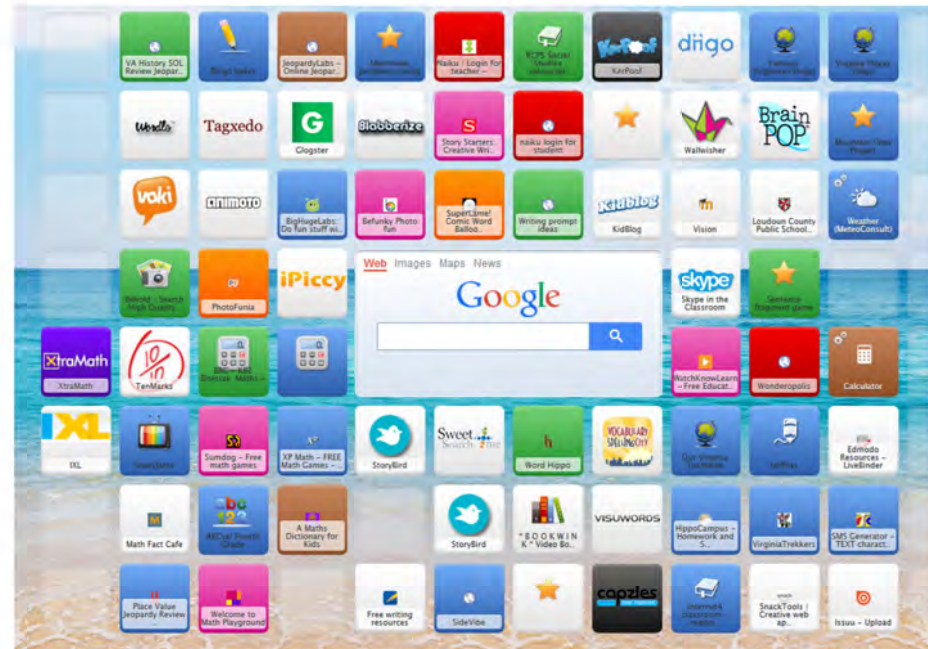
Symbaloo

<http://www.symbaloo.com>

Symbaloo is a visual bookmarking tool that makes it simple and fun to organize the best of the web. You have all your favorite websites at your fingertips. With an account you can access your bookmarks from everywhere with any device and share your online resources with others.



symbaloo
start simple



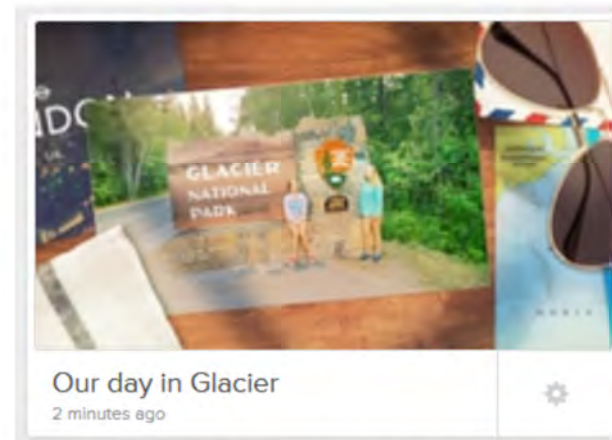
Animoto



Animoto is a cloud-based video creation service that produces video from photos, video clips, and music into video slideshows.

You can create a 30 second video using pictures from your computer or Facebook. All of it can be completed in less than 5 minutes if you wish.

<https://animoto.com/play/EUDaIVi1L12ro3o9n1U85g>



<https://animoto.com/play/EkW2HR1TiiHsNOd5ObsL8A>

Storybird



Storybird

Storybird lets anyone make visual stories in seconds. They curate artwork from illustrators and animators around the world and inspire writers of any age to turn those images into fresh stories.

It's a simple idea that has attracted millions of writers, readers, and artists to our platform. Families and friends, teachers and students, and amateurs and professionals have created more than 5 million stories—making Storybird one of the world's largest storytelling communities.

Storybird reverses visual storytelling by starting with the image and "unlocking" the story inside.

<https://storybird.com/>

Blogging



<http://keepingupwithkatier.blogspot.com/>

<http://www.seldomadullmoment.blogspot.com/>



A blog (also called a weblog or web log) is a website consisting of entries (also called posts) appearing in reverse chronological order with the most recent entry appearing first (similar in format to a daily journal).

Providing a platform for sharing



RAHN READERS AND WRITERS

...EXPLORING THE WORLD THROUGH THE EYES OF 7TH GRADERS

<http://mrsrahn.edublogs.org/>

8 ARE WE ALONE?

WHAT IF THERE ARE OTHERS? ... OUT THERE?

8 Looking in the Mirror

why do we always think it's not our fault?

Looks Over Personality

We all know that most people are more interested in what people look like rather than who they really are? Sometimes in movies or books people will say they like their personality better but really in real life, most people would rather have a ride beautiful person than an average, nice person.

If you saw in my previous post you'll see that I said more men than women look at looks rather than personality, this indicates that men would rather have a girl that's pretty, and not care about how she acts.

lots of questions asked are, why don't I look good naturally? why can't I just feel comfortable in my own skin? or, 'When will I actually feel good about myself?'

Read [this](#) on Edublogs

Enter Witty Title Here

Read [this](#) on Edublogs

#Hearing Colors

1 YEAR 1 MONTH 1 DAY 1 HOUR 1 MIN 1 SEC

The Big Question

My Big Question is...

Would it be better (as in fun/interesting) to have synesthesia or not?

APRIL 26, 2016 10:48 AM EDT 1 COMMENT 1 FAVORITE

A Synesthete's Vision

8 The Perfect Picture?

What is your idea of a perfect picture?

10 Principals Of Beautiful Photography

beginningwithadigitalcamera.com/10-principles-of-beautiful-photography/ This is a website about the 10 principles of beautiful photography. I happen to really like this article, but only since it has good content, but it also has amazing photos. This is a nice mix of both if you like the image...

5 What is Beyond?


Ever thought of what is beyond our galaxy?

Home Sample Page

Universe facts!

Posted on May 30, 2015

- The Universe is approximately 13.3 billion years old.
- A large group of stars is called a cluster.
- There are potentially 170 billion galaxies that we have observed.
- Massive black holes are believed to sit in the center of most galaxies.
- Spiral galaxies are believed to be younger than elliptical galaxies.
- Astronomers found different galaxies based on their shape.

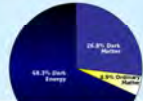


What's Our Solar System Made from

Posted on February 11, 2015

Did you know that there are at least 100,000,000,000 different galaxies that exist? About 68% of the universe is created by something called, Dark Energy, the rest (27%) is made of Dark Matter, (5% of it is protons, neutrons, electrons, and photons). Since matter and energy are equivalent, thanks to Einstein's Famous equation ($E=mc^2$) Scientists have been able to calculate dark matter and energy. So, yes there is other planets out there, some even larger than our sun!

Circle Graph:




Category	Percentage
Dark Energy	68%
Dark Matter	27%
Other	5%

8 Soccer... From Creation to now

Good video for the history of soccer in Europe

Posted on May 15, 2016



History of Soccer: Evolution of the modern game

VIDEO BY: @davidgibson (used a reply)

Some Good Websites About the History of Soccer

Posted on May 4, 2015

<http://www.historyofsoccer.com/>

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8 The Perfect Picture?

What is your idea of a perfect picture?

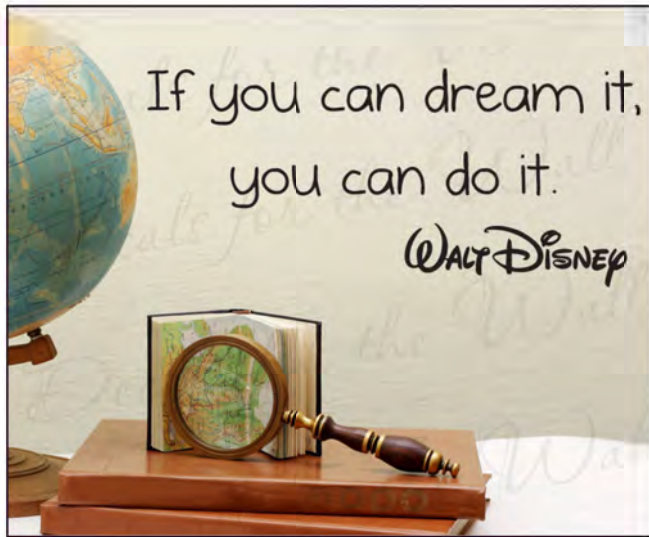
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Student Voice and Choice

<https://drive.google.com/open?id=0B1ZoUnUpKlglMDBYcDFOOEFPSO>

Our future...



Kids need to be given opportunities to create and innovate using technology!

We want to help them realize that there is an audience greater than their teacher and that they are part of a bigger world.



When I'm not teaching.....



Thank You!!