Creating a Surge of Innovation Within Your School/Classroom

CHANTILLY HIGH SCHOOL | FCPS

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How do I provide more opportunities for innovation within my classroom, school and/or division?
Need to Know?

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A Cultural Shift

In modern society, as individuals have to adjust constantly to new challenges and find original solutions, creativity/innovation is a feature that has become increasingly important.

The rationale for 21st century skills
Emerging frameworks of 21\textsuperscript{st} century skills
FCPS Portrait of a Graduate

- Collaborator
- Communicator
- Ethical and Global Citizen
- Creative and Critical Thinker
- Goal-Directed and Resilient Individual
Creative and Critical Thinker

* Engages in problem solving, inquiry, and design of innovative solutions to overcome obstacles to improve outcomes
* Uses information in novel and creative ways to strengthen comprehension and deepen awareness
* Demonstrates divergent and ingenious thought to enhance the design/build process
* Expresses thought, ideas, and emotions meaningfully through the arts
* Evaluates ideas and information sources for validity, relevance, and impact
* Reasons through and weighs evidence to reach conclusions
Exploring Innovation at CHS

- Development and implementation of an innovation lab
- Innovative practices in the classroom
- Opportunities for innovation provided by partnering with other schools or businesses
A Global Movement
Our Vision

To create a student-centered interactive workspace within our school. We hope to create a center for innovation and collaboration within our current library which provides diverse digital tools that grow with our students and better enable them to be 21\textsuperscript{st} Century learners.
Essential Questions

1) What do we want students to get out of our Innovation Lab?
2) What areas of interest should we provide? What should we include in our Innovation Lab?
3) How can we best leverage our Innovation Lab to meet the needs of our students?
Our Process

➢ A planning committee made up of seven staff members was created to study other effective maker-spaces/innovation labs, to review related literature, and to properly assess the needs of students and staff.

➢ The planning committee visited three highly regarded maker-spaces/innovation labs in Northern Virginia. At each location, we interviewed personnel, took pictures, and considered possibilities for Chantilly HS.

➢ We conducted two focus groups with a wide range of staff members and students.
The Result: A Six Station Lab

➢ 3D scanning and printing
➢ Take-apart technology
➢ Audio-visual creation
➢ Robotics
➢ Open-source platforms (Arduino)
➢ Application/game design (coding)
Innovation in the Classroom: Student Voice and Choice
Innovation in the Classroom: Student Voice and Choice

Performing (even rapping!) our way through Jane Eyre PBL Unit presentations—sharing what we’ve learned about identity and relationships! #chantillypride #pbl #aplit

Nikki Lehman
@CHS_writer

Might we change our note-taking idea for our Frankenstein PBL Unit, @kdreyer12? 🤔 #chantillyphd

Nikki Lehman
@CHS_writer

Margaret Sisler @TechyMargaret

Working on a research paper today. I was on my way to buy multi-colored index cards & suddenly had an idea. Why not use GoogleSlides to organize my work? Color code the background for themes, sort and move them around, work anywhere on...

10:39 AM - 17 Nov 2018

6 Likes
Innovation in the Classroom: Student Voice and Choice
Making Real World Connections- classroom to classroom
Making Real World Connections- classroom to classroom
Making Real World Connections - classroom to classroom
Making Real World Connections- classroom to classroom