Real World Learning with a STEM Focus: Xplorlabs and Future City

Leandra Edwards-Brandel
Geisler Middle School
Walled Lake Consolidated School District
Agenda

- Learning Objective
- Xplorlabs
- Future City
- Brainstorming and Creative Thinking
Detail and explore how to engage students in real world problem solving and STEM-based activities with Xplorlabs and Future City.
I have heard of Xplorlabs through UL.

Yes.

No.
I have heard of Future City.

Yes.

No.
When thinking of STEM-based, real-world learning, what word comes to mind?
Access to the Presentation and Materials:

https://tinyurl.com/ocepmsstem2019
Learning Objective
Detail and explore how to engage students in real world problem solving and STEM-based activities with Xplorlabs and Future City.

ENTER THE UL XPLORLABS
Solve real problems through science and engineering and become part of the movement to make the world a safer place.

LEARN ABOUT XPLORLABS
Time to Explore: Connect, Extend, Challenge

★ How are the ideas and information presented connected to what you already knew?
★ What new ideas did you get that extended or broadened your thinking in new directions?
★ What challenges or puzzles have come up in your mind from the ideas and information presented?
Future City

- SimCity Designing
- Researching with Essay Writing
- Model Building
- Presenting
Future City is a project-based learning program where students in 6th, 7th, and 8th grades imagine, research, design, and build cities of the future.

273 days 19 hours 51 minutes

2019 Future City Champions: Warwick Middle School from Pennsylvania (Central)!
The team from Warwick Middle School from the Pennsylvania (Central) Region won the 2019 Future City Finals with their city, Toyama. Congratulations!

Regional Competitions:
January 2020

for educators
Organize a team, facilitate learning, and watch your students’ excitement grow.

for mentors
Engineering and technical professionals provide expertise, guidance, and passion!

for students
Students love Future City! Find out what you need to know as a participant.

for parents
Support your children as they take on this transformative project.
Time to Explore: Connect, Extend, Challenge

★ How are the ideas and information presented connected to what you already knew?
★ What new ideas did you get that extended or broadened your thinking in new directions?
★ What challenges or puzzles have come up in your mind from the ideas and information presented?
How do you see these topics connecting to your role within education?
https://padlet.com/leandrabrandel/ocepmsstem2019
Contact Information

Leandra Edwards-Brandel
Geisler Middle School
Walled Lake Consolidated School District
leandrabrandel@wlcsd.org