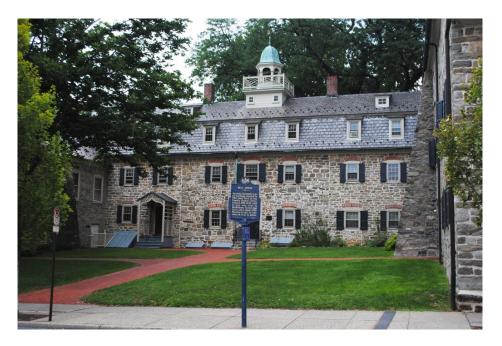


PLACE-BASED GAMES FOR FLEMENTARY SOCIAL STUDIES

Julie Oltman, Lehigh University
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Thomas Hammond, Lehigh University

THE SETTING

- Games built for local private school located in a downtown, historic district.
- This location provided many opportunities for taking social studies instruction outside!
- Enthusiastic faculty
- Worked with grades 2-4
- [Note: 2 of the games are portable—can go to any school, any location]







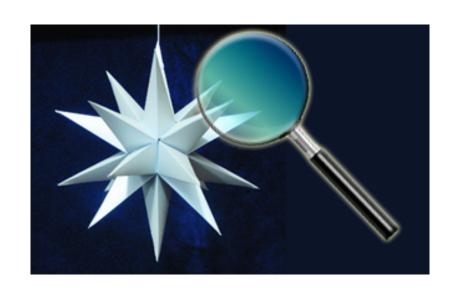
THE GAMES



Community Needs Game



Great Government Guru Game



Moravian History Mystery



WHERE WE WERE & HOW WE USED THE SPACE











COMMUNITY NEEDS GAME

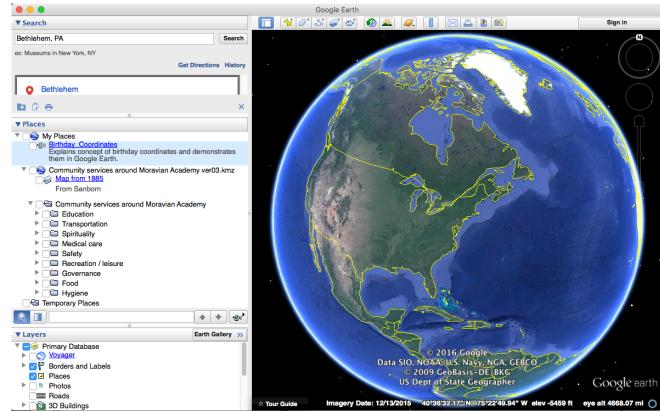
- Defines "community" around how different "community needs" are met: food, water, safety, education, etc.
- Placed QR codes around the school campus on people, places, & things meet (school) community needs
- Players challenged to find & scan resources for all of the community's needs
- Game embedded within a wrap-around lesson that begins & ends with Google Earth and worksheet.
- After game, homework to reinforce: locate community resources at home?





INTRO WITH IMAGINATION & GOOGLE EARTH







LET'S THINK!

Community needs activity

Before:

Brainstorm & Organize the hunt

What does a community need?		Date:	
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Community needs activity	Name:	
What about the community of v	our home?	Date:

Your home is a community on a very small scale. Because it is a community, it still will have things, people, and places that meet the community's needs.

Use what we learned to name some of the things, people, and places in your home that meet your needs! You don't need to fill in every square, just see what you can think of.

Things?	People?	Places?
	Things?	Things? People?

After:

Go home and do it again!

Hammond / Oltman, Lehigh University, Spring 2015 Hammond / Oltman, Lehigh University, Spring 2015

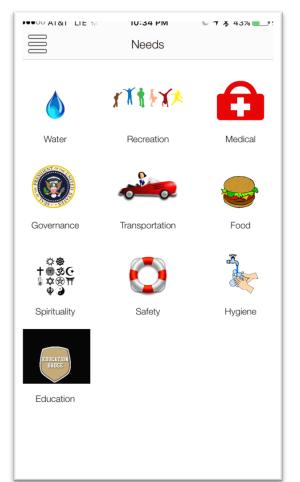


LET'S GO PLAY!







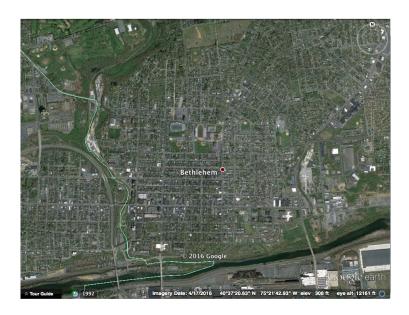










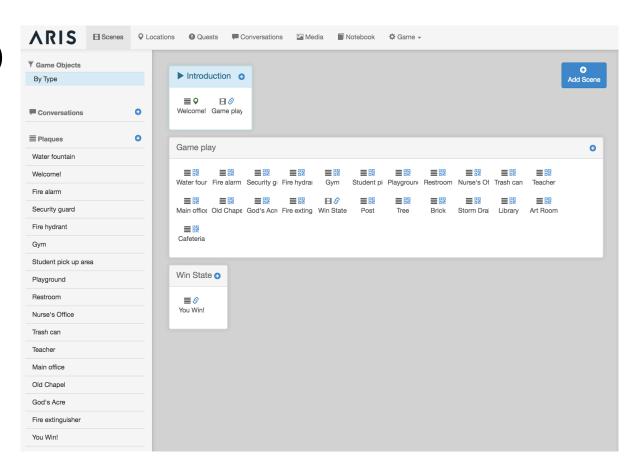






THE BUILD WITH ARIS

- (Template: Scavenger hunt)
- Quests were "Needs"
- Players had to collect a certain number of each need to complete quest
- Game flaw:
 No accountability for not knowing what need is being met





GREAT GOVERNMENT GURU GAME

- Designed for elementary students learning about the role of (local) government and private offices that support government interactions
- Game is played after class has had lesson on functions of government: a) provide services, b) protect rights, or c) maintain order
- Small teams of visit various locations and decide which function it serves
- If the team chooses correctly the first time, they earn more "Civic Credibility Coin"
- As teams earn more coins, they level up, ultimately becoming a Government Guru!

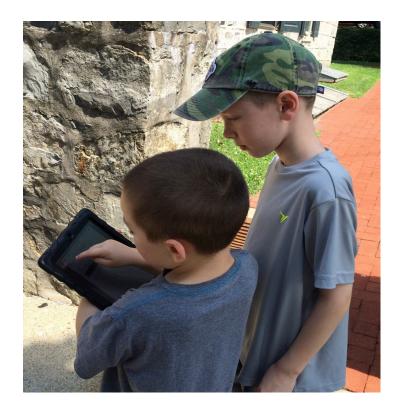




LET'S PLAY!



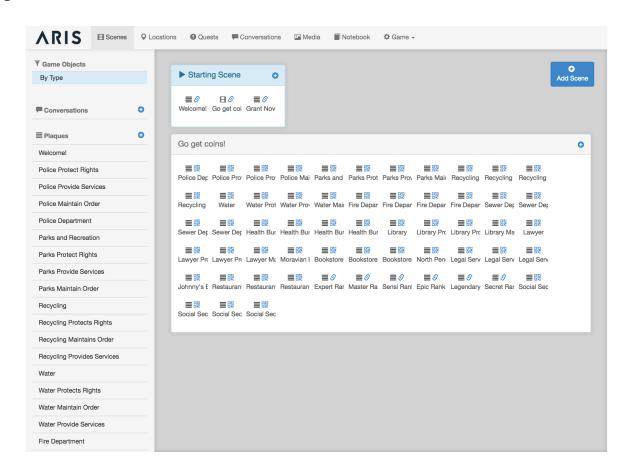






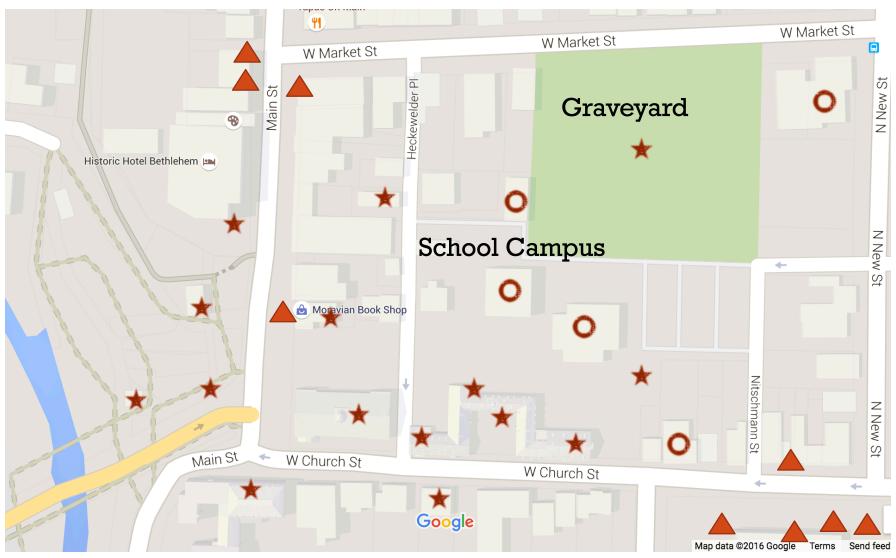
THE BUILD WITH ARIS

- (Template: Matching game!)
- (Logistical question: Do you have cellular connection?)
- 4 QR Codes for each location
 - title + 3 choices of function
- Correct answer = +30 coins
- Incorrect answer = -10 coins
- Levels = amount of coins earned





PORTABILITY OF GOVERNMENT GAME





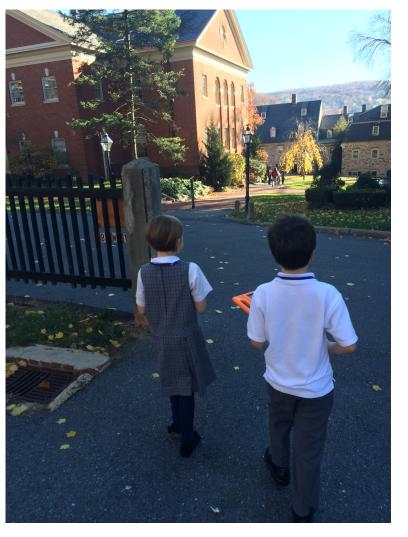




MORAVIAN HISTORY MYSTERY

- Embedded within a long-standing curriculum unit
- 2 iterations over 2+ years
- Most complex game we've built basis for dissertation research
- Utilizes GPS triggers

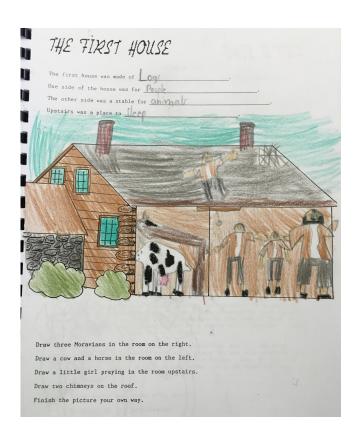




Julieoltman.com



ORIGINAL CURRICULUM



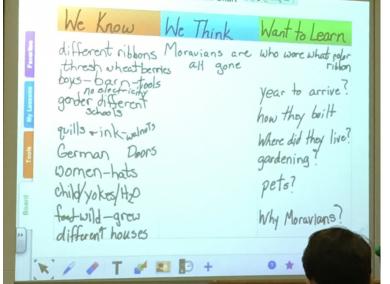


Dye house

The Dye house only has 3 walls standing. The building was next to the Grist mill. The Dye house only has three walls standing because it was from the coloniol Moravian times and that was a long time ago. The dyes came from natural materials.



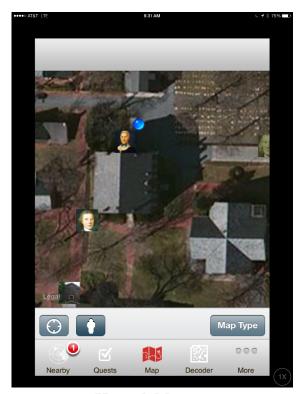


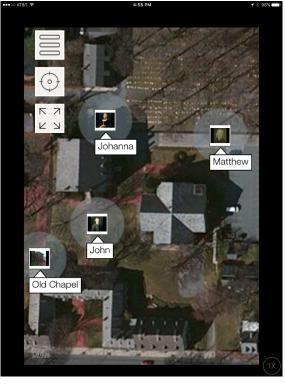


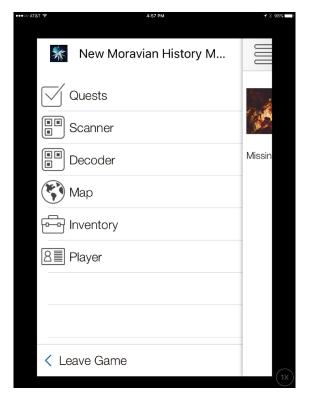


THE GAME

- Introduction in classroom
- Game played mid-unit
- Students played in pairs or triads





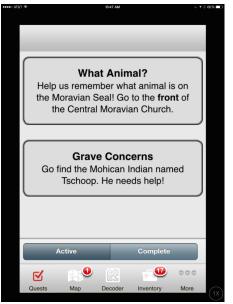


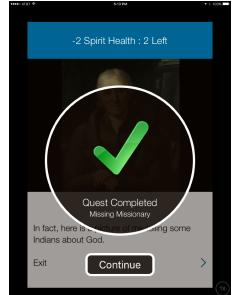
Year l Map

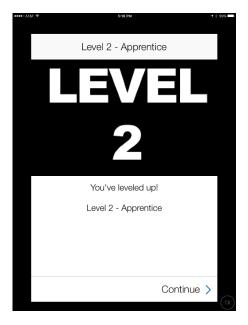
Year 2 Map

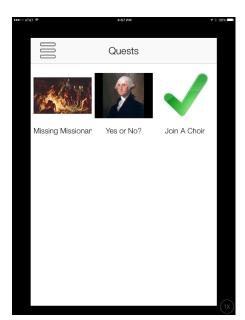


QUESTS, LEVELS, & INVENTORY!

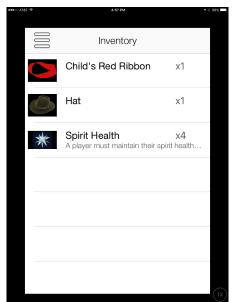










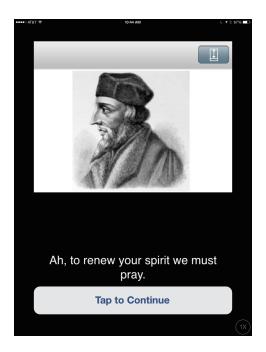


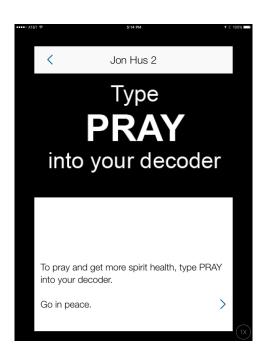


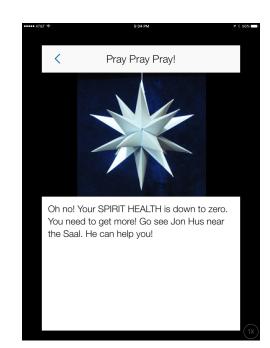
CUSTOMS OF SOCIETY



ACTION OF GAME





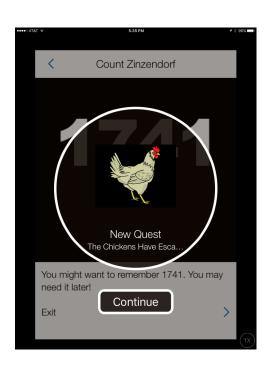






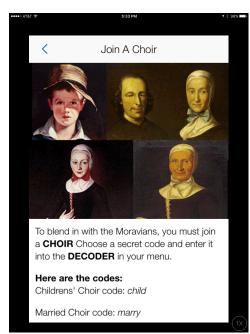


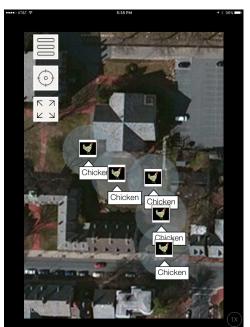
FEELING LIKE A GAME...







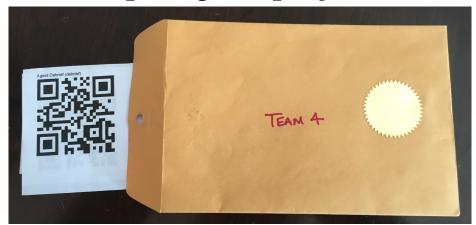




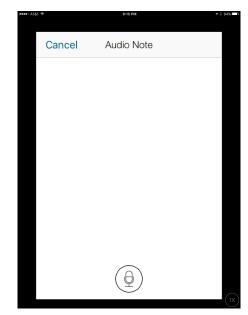


STEATH ASSESSMENT

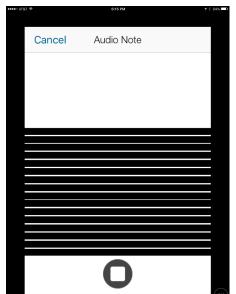
Pre and post gameplay



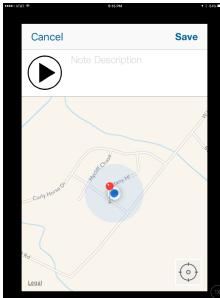








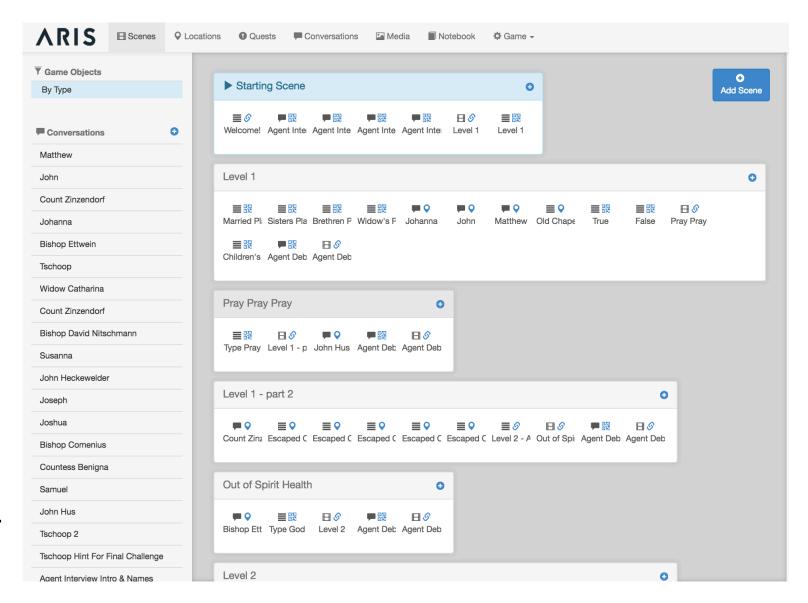






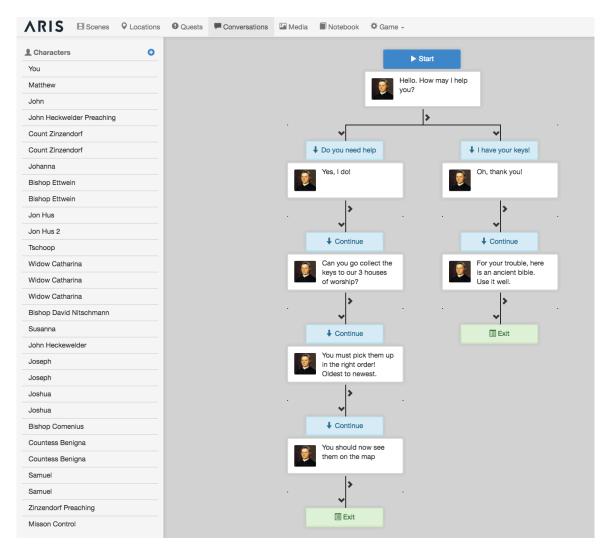
THE BUILD

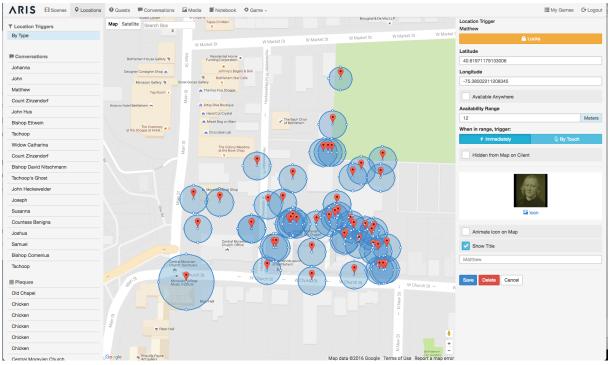
- (Template = Minimallystructured quest game)
- Levels = scenes
- To balance logistics vs. social play, multiple quests included in one scene/level
- Level up by completing certain quests





CONVERSATIONS & LOCATIONS







GAME DESIGN IMPLICATIONS

For young learners:

- Geospatial skills require significant scaffolding
- Reading requirements needed to be both grade level & not distracting to gameplay
- Video content was not received well in initial testing
- Certain game mechanics were popular & well received: collecting items, typing codes, and figuring out the right order
- Curriculum content needs to be an active part of the game experience and not provided as "additional info"
- Teachers provided valuable insights that guided the researcher's design process



BUT WAIT — THERE'S MORE!

- More games for the classroom: Ellis Island / Angel Island game
- At PETE&C: Dr. Scott Garrigan's sessions
 - Poster Tomorrow "Lessons Learned Creating A Game with ARIS"
 - Earlier Today "Design and Program a Mobile Game with ARIS"
- Other Lehigh-affiliated scholars:
 - Denise Bressler dmbressler@gmail.com
 - Farah Vallera
 https://sites.google.com/site/farahlvallera/



QUESTIONS?

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