3rd grade Map skills blended learning unit

Essential Question/Big Idea:
How do map skills help humans navigate in the world?
How can map skills be used to help non-humans (robots) navigate in the world?

Objective: TSWBAT
- identify key words from maps, such as directional words, map key, compass, scale
- Create a map of a city that includes key elements
- Use block programming
- Program a robot to move through city from one point to another

[Pre-assessment](#) prior week 1 to group for centers, review key terms in class

Week 1:
- ❏ Intro 8 min
- ❏ 20 min creation of grid map
- ❏ 7 minutes journaling
- ❏ 3 min closing/line up

TSW make a city using a grid sheet
Requirements: streets/paths, 3 housing units, 1 school, 2 businesses, 1 park, 1 body of water, map key, compass rose
1. On the back of grid list requirements
2. Turn in to map key by assigning colors to the requirements
3. Make a compass rose
4. Create city on front
5. Pick one place to start, a place to end and right directions to go from start to finish

Weeks 2-3:
- ❏ Intro 8 min
- ❏ 12 min centers - two times
- ❏ 7 minutes journaling
- ❏ 3 min closing/line up

[Centers](#)
Red
Make a city using the table top grid and buildings. Create a direction code.

Blue
review coding blocks with Mrs P

Green tech center
https://edpuzzle.com/assignments/57e297d8b7226e3b253dcaee/watch

Orange

matching/memory map skills review, follow up [review](#) page for students to make note of what they didn't know and need to study

<u>Vocabulary</u>

Grid-network of lines and squares

Compass rose- shows directions on a map

Symbol- represents something

North

East

South

West

Directions- how you get to a place

Route- path to find your way

Map key- explains map symbols

Map- a drawing or illustration that shows a place

Landforms- mountains, hills, plains, and more

Landmark-something easy to find, like a building

Scale- compares distance on a map

Week 4-5 measure the school, write directions from one place to another

Week 4 write the code for robots to move one place to another

Week 5 test the code

Journaling topics:
1. What was something you didn't know or forgot, that you learned/remembered today?
2. What was a challenge point for you today? A challenge point is something that is difficult and causes you to think or work harder.
3. What is something you could do differently next class to make your ideas even better?
4. How can you take what you worked on today, and use it at home?
5. What is your goal for the next class?
6. Are you proud of your effort today? Why or why not?
7. How could you improve your work from today?

Other Resources

http://www.ltisdschools.org/site/Default.aspx?PageID=7191

http://geography.pppst.com/mapskills.html

Rubric

	NS	AS	OS	MS	ES
Vocabulary directional words, map key, legend, compass, scale, landforms: mountains, rivers	5/10	6/10	7-8/10	9/10	10/10 times uses vocabulary correctly
Create map	5/10	6/10	7-8/10	9/10	Uses 10/10 required elements
Explains block coding moves	5/10	6/10	7-8/10	9/10	Uses block coding correctly 10/10
Uses block coding to move from one place to another	5/10	6/10	7-8/10	9/10	Uses block coding correctly 10/10