### The PLTW STEM Teacher





#### **Meet the Facilitators**



Flora Gasca PLTW Instructional Developer



Christine Davenport PLTW Launch Master Teacher





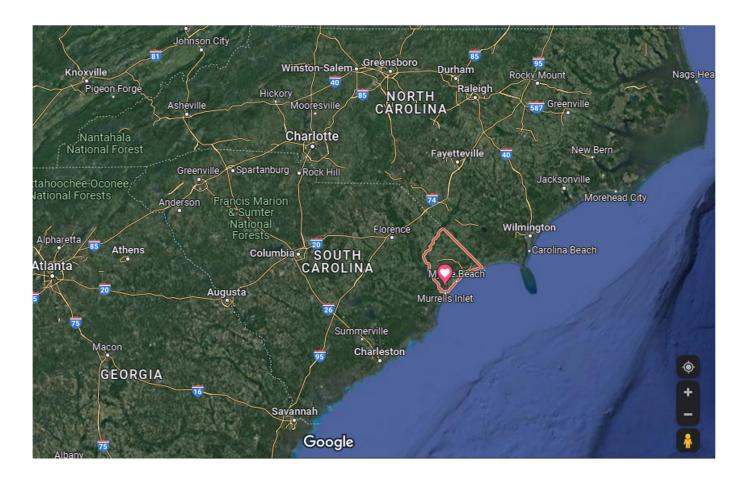
### Our Agenda

 $\Box Q/A$ 

- Welcome and Introduction of Presenters
- Overview of Session
- □ STEM Special Schedules
- Classroom Organization and Storage
- Exploring Strategies for Your Classroom



#### Horry County Schools District, SC



- 56 schools
- 9 attendance areas
- 28 elementary schools
- 45,000 students
- 3rd largest school district
  - PLTW Launch
  - PLTW Gateway
  - PLTW CS, ED, BS





#### West Platte School District



- Located in Weston, Missouri
- Prek-12th grade school
- 400 students at the elementary level
- Serve all Prek-5 students in the district
- Launch, Gateway and Biomedical Science offered in our district





#### **STEM Special Schedules**

## Keeping integrity of the APB approach with various scheduling needs







- 3 classes per grade level
- 55 minutes for 2-5
- 25 minutes for k-1

9:15-10:10	5-Cobb 4-Key	5-Black	C Day	D Day 5-Webster
	4_Kou			D-Wohclor
10.15 11 10	iney	PLAN	4-Norton	4-Litner
10:15-11:10	PLAN	3-Blue	3-White	PLAN
11:15-11:50	PREK/LD	PREK/LD	PREK/LD	PREK/LD
12:00-12:25	К-Норе	K-McConkey	K-Hope	K-McConkey
12:30-12:55	K-Colbern	LUNCH	K-Colbern	LUNCH
1:00-1:25	LUNCH	1-Grier	LUNCH	1-Grier
1:30-1:55	1-Northern	1-Johnson	1-Northern	1-Johnson
2:00-2:55	2-Jaster	2-Reynolds	2-Chapman	PLAN



#### • 4 classes per grade level

		Monday	Tuesday	Wednesday	Thursday	Friday				
Planning 7:35 - 8:00										
	PE	Cox	*Tutoring*	Shoe	Orabona	Floyd				
	Art	Floyd	Cox	*Tutoring*	shoe Orabor					
5th Grade 8:00 - 8:45	Music	Orabona	Floyd	Cox *Tutoring		Shoe				
0.00 - 0.45	Library	Shoe	Orabona	Floyd	Cox	*Tutoring*				
	STEM	*Tutoring*	Shoe	Orabona	Floyd	Cox				
	PE	Cannon	Johnson	Rogers	Roark	Richardson				
CD &	Art	Richardson	Cannon	Johnson	Rogers	Roark				
Kindergarten	Music	Roark	Richardson	Cannon	Johnson	Rogers				
9:25 - 10:10	Library	Rogers	Roark	Richardson	Cannon	Johnson				
	STEM	Johnson	Rogers	Roark	Richardson	Cannon				
Lunch/Planning 10:10 - 10:45										
	PE	Presley	Robinson	Morton	Mogus	Porter				
2nd Grade	Art	Porter	Presley	Robinson	Morton	Mogus				
10:45 - 11:30	Music	Mogus	Porter	Presley	Robinson	Morton				
	Library	Morton	Mogus	Porter	Presley	Robinson				
	STEM	Robinson	Morton	Mogus	Porter	Presley				

#### SPARKING CURIOSITY

- 5 classes per grade level
- · Classes rotate daily

Child Development - Grade 3	Day 1	Day 2	Day 3	Day 4	Day 5
	Monday	Tuesday	Wednesday	Thursday	Friday
Teacher 1	Music	PE	Media	STEM	Art
Teacher 2	Art	Music	PE	Media	STEM
Teacher 3	STEM	Art	Music	PE	Media
Teacher 4	Media	STEM	Art	Music	PE
Teacher 5	PE	Media	STEM	Art	Music

SPARKING CURIOSITY

• 6 classes per grade level

Service

Art

Media

Service

Art

Music

PE

Media

Willis

Powley

• Each class has STEM for a week

Grade 4	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15
	Monday	Tuesday	Wednesday	Thursday	Friday	Monday	Tuesday	Wednesday	Thursday	Friday	Monday	Tuesday	Wednesday	Thursday	Friday
Dame	STEM	STEM	STEM	STEM	STEM	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art
Franks	Art	Music	PE	Media	Service	STEM	STEM	STEM	STEM	STEM	Art	Music	PE	Media	Service
Johnson	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	STEM	STEM	STEM	STEM	STEM
Ridgeway	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE
Willis	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music
Powley	Music	PE	Media	Service	Art	Art	Music	PE	Media	Service	Service	Art	Music	PE	Media
Grade 4	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26	Day 27	Day 28	Day 29	Day 30
	Monday	Tuesday	Wednesday	Thursday	Friday	Monday	Tuesday	Wednesday	Thursday	Friday	Monday	Tuesday	Wednesday	Thursday	Friday
Dame	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art
Franks	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service
Johnson	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE	Media
Ridgeway	STEM	STEM	STEM	STEM	STEM	Media	Service	Art	Music	PE	Media	Service	Art	Music	PE

STEM

PE

Music

PE

STEM

Media.

STEM

Service

STEM

Art

STEM

Music

PE

STEM

Media

STEM

Art

STEM

Music

STEM

Service

STEM

- 13-14 classes per grade level
- · 2 separate blocks per grade level
- 7 specials
- . Weekly specials rotation

Time	Team	Teacher	8/15 - 8/18	8/22-8/26
7:45 - 8:30	Otters Ludewig		PE Kline	Drama
	4th Grade	Wiggins	Library/Guidance	PE Kline
		DePetris	STEM	Library/Guidance
		Ledford	Music	STEM
		Carrano	PE Bell	Music
		McCaskill	Art	PE Bell
		Open	Drama	Art
8:30 - 9:15	9:15 Manta Rays Brown		PE Kline	Drama
	4th Grade	Oliver	Library/Guidance	PE Kline
		Maeder	STEM	Library/Guidance
		Lineman	Music	STEM
		Malcolm	PE Bell	Music
		Lewis	Art	PE Bell
		Ciel	Drama	Art

SPARKING SURIOSITY

# What schedule fits your needs?



#### **Classroom Organization and Storage**







#### **Organization by Consumable Items**







#### **Organization by Kits or Modules**







#### **VEX IQ Kits**









#### **VEX IQ Kits**















#### **Unfinished Projects**

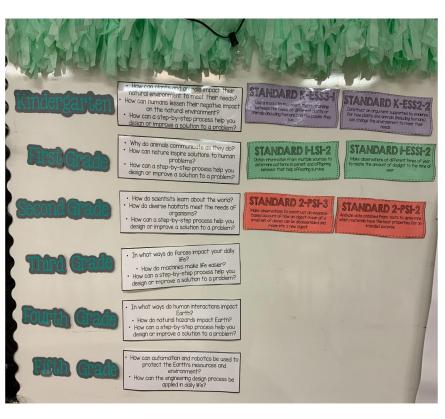




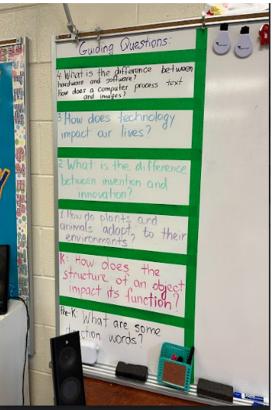




#### Agenda, Standards, Objectives, Lesson Goals













#### The Don't Talk to Me Poster

- Used for VEX
- Same size, shape, and color
- Available in each Vex IQ kit



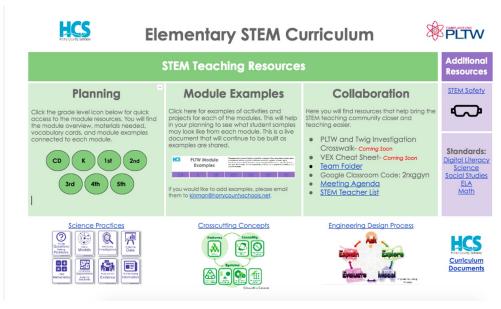


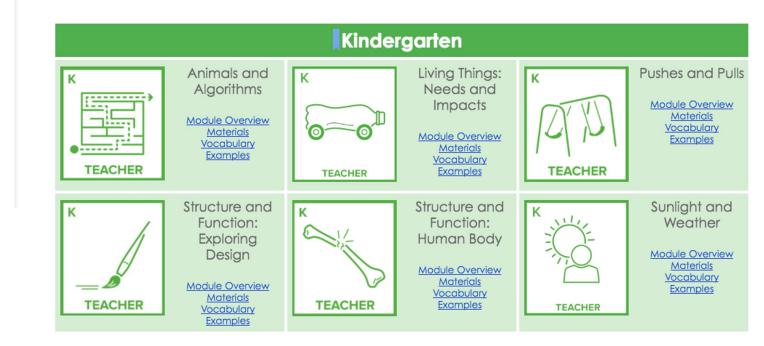
#### How do you organize your STEM classroom?





#### **STEM Collaborative Planning**





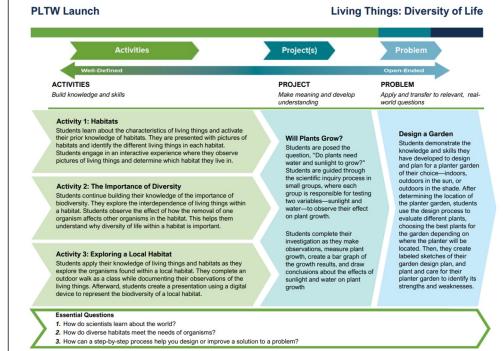




#### But what if I am alone, an island?



#### **APB Overview, Planning Tools, PD Suite**







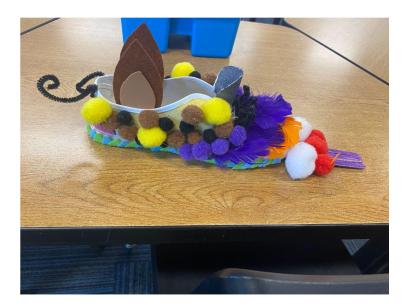




#### **Supplements and Additions**













#### Awards

- Success/failure
- Turn to...
- What if we had...
- I wish I would have...
- 5th grade redo





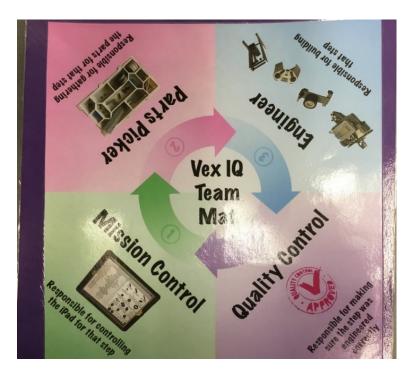
#### **Grouping Strategies**

- When to group?
- Why to group?
- How to group?





### **VEX IQ Team Roles**







\*\*\*After each cycle remember to rotate roles within your group. Ex.: Builder becomes Quality Control, Quality Control becomes Parts, Parts becomes Preview. Every time a step is completed you move down the list. Continue this pattern until your build is completel Good luck!

1. What do I do if I'm the **OUDDOOD**? I get to build or put the pieces together for the step we are on.

2. What do I do if I'm @@@@@@@@@@@@@@@@? I am the person responsible for making sure that the step was assembled correctly.

3. What do I do if I'm the **BBBBS BBBSOD**? I am responsible for getting the parts out of the kit for the next step.

4. What do I do if I'm in charge of @@@@@@@? I am responsible for informing the parts person of the pieces that are needed from the kit.

5. What do I do if I'm the ODEG GEODEG? I am responsible for making sure that the iPad is being used correctly and I am helping out with other jobs as needed.





#### **Questions?**





#### **Contact Us**



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