

21st Century Community Learning Center

Lincoln Elementary School, Janesville, WI

An Overview of our Program

Wow! What a 3 year journey! As a CLC program we have grown so much, and we are always looking for innovative ways to improve for our students. Our 21st Century CLC embraces innovation and critical thinking skills while using reading and math as a foundation for instruction. The delivery model provides students with 21st Century skills to problem solve and think critically while reinforcing reading and math skills. Developed with input from teachers and students, the center embeds elements of STEM (Science, Technology, Engineering, and Mathematics) program components, like Engineering is Elementary (EiE) and Robotics. At the same time, we tap into the students' creative sides with Musicals and LEGO Story Starter program. New this year, we have added Scootpad, an online computer program that customizes the learning for your child. All of the experiences the students encounter in our CLC program connect the students' learning to real life, ultimately providing them with a vision for their future.

Celebrations

- ◆ This is our 3rd Year!
- ◆ Each year we have expanded the program:
 - ⇒ In 2012 - 4 Grade Levels offerings of Engineering is Elementary
 - ⇒ In 2013 - Added LEGO Story Starter and 2 Musicals
 - ⇒ In 2014 - Added LEGO Robotics and Tech Ninjas
- ◆ We've presented twice at the state CLC conference
- ◆ In 2014 - Highest average enrollment since we have begun!
Average about 65 students per session! So far 93 students have been a part of our CLC program already this year!!



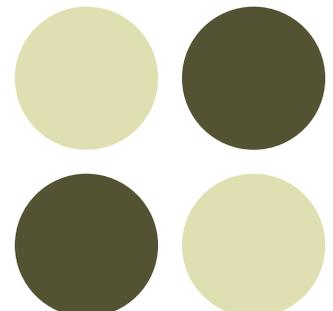
Historical Time Line

2012-13	Engineering is Elementary	4 teachers
2013-14	Engineering is Elementary LEGO Story Starter Two musicals	8 teachers
2014-15	Engineering is Elementary LEGO Story Starter Two musicals LEGO Robotics And now... TECH NINJAS	11 teachers



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1821 Conde Street, Janesville WI 608-743-6700 www.janesville.k12.wi.us/lin



Robotics

What is robotics?

During certain CLC sessions, students will be able to play with different kinds of robotics. The first kind is called Little Bits. In the Little Bit kits, students can play with circuits; putting them together to accomplish different goals. For instance, one circuit could make a noise, but if you add, switch, or change the circuit, you can make it accomplish a different goal such as making a gear rotate. The first day we used the Little Bit kits with the 4th and 5th graders, we let them explore the [website](#) and search for all the possibilities of things they could create with one kit. The kids were so excited to try some of the things they saw, but they were also excited to try their own! Here are some examples of circuits that were created: [Pencil making an arch](#) and [Key-board](#)



After that, we had the kids try to incorporate their circuits with legos! Here are some examples: [Rotisserie cooker](#), [Jingle Bells](#) and [Car running](#).

Next, the kids are going to explore robotics with [EV3 kits](#). With these, the kids will be able to build and program a robot! They are really excited to get going on this!

Why robotics?

So why would we want to teach our students about robotics? Well, robotics uses math, science, and technology skills simultaneously. It also allows for problem-solving skills to be applied in a real-life scenario increasing student engagement. And finally, this type of learning is an introduction into many technology-based jobs that will be needed as our students grow and enter the adult world.

When can my child take part in robotics?

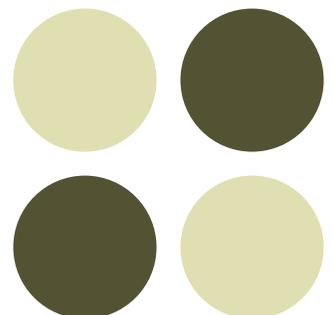
Right now, robotics is being taught in conjunction with the musical. Since the musical is for grades 2-3, robotics is offered for grades 4-5. The next session will be a return to EiE and Legos Story Starters. The last session of the year will be 2nd/3rd grade Robotics and a 4th/5th grade musical.

Staff

Here is our current staff list - Ms. Arnold, Ms. Barry, Ms. Carter, Ms. Dean, Ms. DeGarmo, Ms. Mau, Ms. Mergen, Ms. Parker, Ms. Redieske, Ms. Simmons and Ms. Twardzik Our CLC program is staffed by Lincoln, so your child is with the same people that they are with during the day in a warm and safe learning environment! The CLC learning objectives align with the goals of the day program! The teachers meet and communicate to enhance the learning of your child!

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Goals

Our goal is to provide Lincoln families with:

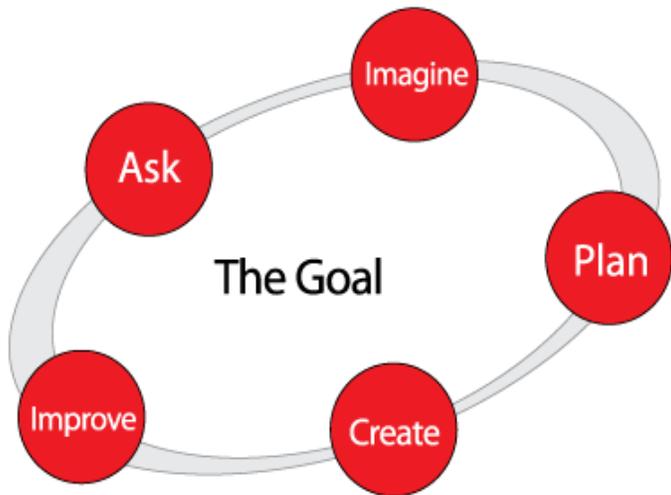
- ◆ a safe hands on learning environment that extends beyond school hours
- ◆ a strong foundation to become critical thinkers by using programs such as:
 - Engineering is Elementary
 - LEGO Story Starter
 - LEGO Robotics - EV3's and WeDo's
- ◆ communicate and collaborate with our families and Janesville Community to enhance the learning occurring in the CLC program

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Engineering is Elementary

Our first session of Engineering is Elementary was a success! Students worked through the Engineering Design Process to solve problems and think about various solutions. 2nd graders learned about the Great Wall of China and thought about what properties of materials would make the best mortar for a wall. We took pictures and made Google Presentations of the different walls at Lincoln school. We also used Legos to think about different types of walls. As a final project, we made a mortar mixture and built a model of a wall. We got to test their strength by using a small-scale wrecking ball (a golf ball tied to a string). We are excited for EiE to start back up after winter break! This is an example of just one of our Engineering is Elementary projects, please check out the chart below for more of the interactive using the students will encounter this year in our CLC program.



	<i>Session 1</i>	<i>Session 2</i>	<i>Session 3</i>
2 nd Grade	A Sticky Situation: Designing Walls	Sounds Like Fun: Seeing Animal Sounds	Best of Bugs: Designing Hand Pollinators
3 rd Grade	An Alarming Idea: Designing Alarm Circuits	Its' a Long Way Down: Designing Parachutes	A Slick Solution: Cleaning UP an Oil Spill
4 th Grade	Just Passing Through: Creating a Model Membrane	A Stick in the Mud: Evaluating a Landscape	A Work In Progress: Improving a Play Dough Process
5 th Grade	No Bones about It: Designing Knee Braces	Water, Water Everywhere: Designing Water Filter	Now You're Cooking: Designing Solar Ovens

Tech Ninjas

What are the Tech Ninjas?

Tech Ninjas are a group of 3-5 graders who are trained in various sites, apps, and tools. They then go in and support teachers, staff members, and students on how to properly use said sites, apps, and tools. It might include Hour of Code, emailing, presentations, Google Drive, or power my learning. Learn more from this [video](#).

How does one become a Tech Ninja?

Tech Ninjas are selected by the Ninja teachers through a process in which the student fills out an application and has their parent, as well as other teachers, sign off as recommendations. The Ninjas have to be students who are responsible, have good character, and want to know more about technology.

How many Tech Ninjas are there?

Last year, there were 14 Ninjas. This year, we welcomed Miss Arnold to our unit, allowing us to take on more students. This year, there are 17 Ninjas. The plan is to increase this number next trimester, using the first round of Ninjas as mentors to the new recruits. (26 total)

When do the Tech Ninjas train?

Previously, every Wednesday morning at 7:15, the Ninjas would meet in Mrs. Barry's room to learn something new. Each Tuesday night, they got an email explaining to them what it is they would be doing the next morning in training. They would leave these meetings with skills to teach others about whatever it is they learned that morning. Soon, Tech Ninjas will be offered during CLC time!! We are looking forward to being able to teach more skills to the ninjas! They will also be trained in the following: how to approach a class, what confidence is needed, how to mentor students, behavior when leading a class, etc. There are rules that need to be abided by, or a Ninja can be terminated.

What can Tech Ninjas help teachers with?

The Ninjas have been trained in various programs such as powermylearning, coding, and iMovie. They have also been trained in all things Google; drive, docs, sheets, forms, presentation, draw, and also Doodle for Google. Through the use of a 3D printer, the ninjas have started creating badges using the software supported by the printer. Ninjas have also been trained and done trainings on Little Bird Tales and Glogster.

How do teachers get the Tech Ninjas to support their class?

Right now, if a teacher is in need of a Ninja's support, they can send an email to any of the Ninja teachers and request assistance. The teacher will then find the best Ninja for the job and that student, or students, will be deployed into action. In the near future, there will be a Google form in which teachers and staff can request assistance with technology.

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What's Hour of Code?

The hour of code is where you learn how to code and how to learn the basics of computer science. So now we are kids but when we get older we could be an engineer for computer science. If you want to participate in hour of code you can go to the [hour of code](#) website. It will be one hour of learning how to code. Every kid in Lincoln will participate. The Tech Ninjas will be there to support if help is needed. View [Movie](#). See [coding example](#).



JOIN US FOR AN EVENING OF FUN AND LEARNING!

Thursday, December 11th, 4:30-7:00 p.m.



Engineering in Education

*CLC students will have their projects on display
Also on display will be projects from Edison M.S. and Parker H.S.*



Pat Deibert, associate director, **Project Lead The Way (PLTW)** of **Milwaukee School of Engineering (MSOE)** will be presenting to parents the importance of **Science, Technology, Engineering, and Mathematics (STEM) Education**



Each family is asked to bring:

- ✓ *½ dozen cookies, bars, or cupcakes*
- ✓ *a book to swap*
- ✓ *drinks & pizza will be provided*



Stories With Santa

Presented by Lincoln's Family Resource Center, Title I, and Lincoln's Academic Coach



Come listen to Santa read a story and receive tips to help your child love reading



DON'T FORGET YOUR CAMERA!!

Students will be able to talk to Santa.
We will, also, be doing a fun activity.



Visit the PTA'S Holiday Shop

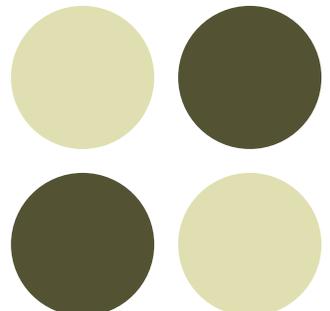
Scoot Pad

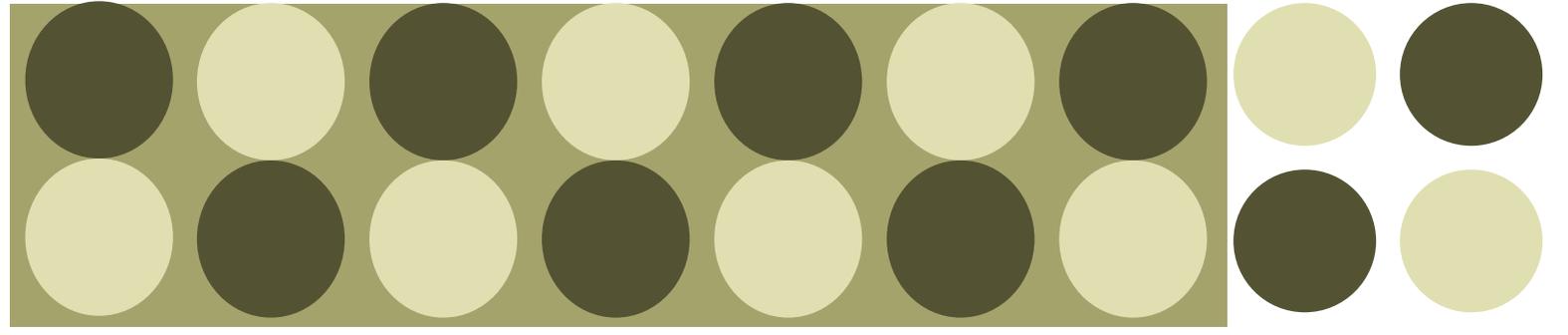
New this year is Scootpad - it is an interactive program that provides the students with activities from the following subject areas - Reading, Math, Science, Social Studies and Language Arts. The program is aligned to the Common Core State Standards. The program allows us to target specific standards that your child needs. The CLC staff will coordinate with your child's teacher to identify what they need and tailor the program to meet their academic needs. We are currently using this program in both our morning and afternoon programs.

EVERY child who signs up for CLC this year will get a username and password to use this program, not only in our CLC program, but home as well!

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CLC Musical

2ND AND 3RD GRADE CLC MUSICAL:

DECEMBER 18, 2014

3:30 Program for 2nd Grade Families

4:30 Program for 3rd Grade Families

In the Lincoln Activity Room

LIGHTS, CAMERA, MUSICAL!

The 2nd and 3rd Grade Students enrolled in the after school CLC Musical Program will present a production called "North Pole Musical" on December 18th at 3:30 and 4:30 p.m. in the Lincoln Activity Room. All of the 42 students in the cast will perform in both shows. Two shows will be performed due to the large audience turn out!

This has been a wonderful opportunity for enrichment in music, drama and dance for the 42 students who are participating. I am so grateful to have been asked to come back again, to work with the super Lincoln students and staff! I hope to see you at the show on Dec. 18th!

~Mrs. Neitzel



Other Musicals

Just a reminder to mark those calendar for Music Performances from Mrs. Difazzio!

Grades 4/5 Holiday Concert

is **Tuesday, December 9, 2014**. Grade 4 parents are invited to the 9:00 a.m. show and Grade 5 parents are invited to the 1:30 p.m. show. If you need to switch times you may they are both the same program with the same kids each time.

Kindergarten Holiday Concert

is **Tuesday, December 16, 2014**. They will have one performance at 2:00 p.m. in the activity Room.

Grades 1, 2, 3 Spring Concert

is **Friday, April 17, 2015**. They will sing a combined concert at 10:30 for parents who students last name begin A-L and at 1:30 p.m. for parents who students last name begin M-Z.

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Top Ten Reasons to Join

1. It's FREE!!!!

Our 21st Century CLC program is funded from a grant that Lincoln received by DPI in 2012!

2. If you LOVE hands on learning and technology, this is the place for you!

- The morning session features Scoot Pad, a fun, interactive program for Reading & Math.
- The afternoon session focuses on solving real-life problems of an engineer! Each grade level explores 3 different units throughout the year, such as Cleaning Up an Oil Spill, Designing Knee Braces, and Building Wall.

3. You have a choice! Are you a morning person? Afternoon person? Or Both? The sessions are open to both Grades 2 - 5!

4. Our CLC program is staffed by Lincoln, so your child is with the same people that they are with during the day in a warm and safe learning environment!

5. It's just for Lincoln Kids!

This provides your child with extra time to meet new students in other grade levels!

6. And again, it's FREE!

7. FREE SNACK AND BREAKFAST!

- Morning Session - While your child is here during the morning session they will receive breakfast from our Breakfast Club.
- Afternoon Session - The students are provided a snack in the afternoon before they start their afternoon classes.

8. Our connection with the day program! The CLC learning objectives align with the goals of the day program! The teachers meet and communicate to enhance the learning of your child!

9. Just think of it as extending their learning in a fun and interactive way!

10. Remember, it's FREE!