

Hello!

We are so glad you are here.

Link to our Presentation...

bit.ly/stem2cmsd12

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Tech gives the quietest student a voice.

Jerry
Blumengarten

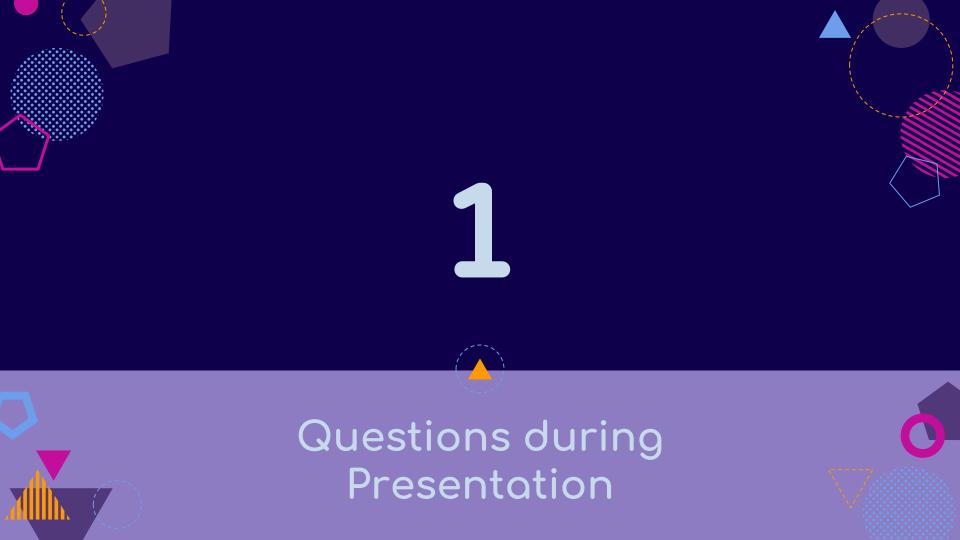
When technology integration is at it's best, a child or teacher doesn't stop to think that he or she is using a tech tool---it's second nature.



- Integrate more technology into your curriculum
- Help you feel less overwhelmed
- Share how to manage iPads in the classroom
- Share how to incorporate coding/STEM activities in the primary grades
- Give you time to explore apps that you can use immediately

Outline for Session

- Question Forum
- Introductions/Skill Levels
- Management of iPads
- Explanation of Apps/Robots
- Time to explore/create



Ask a question at

Navigate to this page...This is a way to ask questions during our presentation.



Skill Levels in this room

iPad Skill Level

Novice:

iPad has gathered dust on your shelf..

Intermediate:

Some knowledge of apps - not consistently using the iPad, don't know the next steps to take



Advanced:

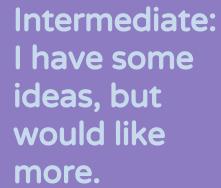
Use the iPad daily, hoping for some new apps today.



Skill Levels in this room

Management Comfort Level

Novice: HELP!!!

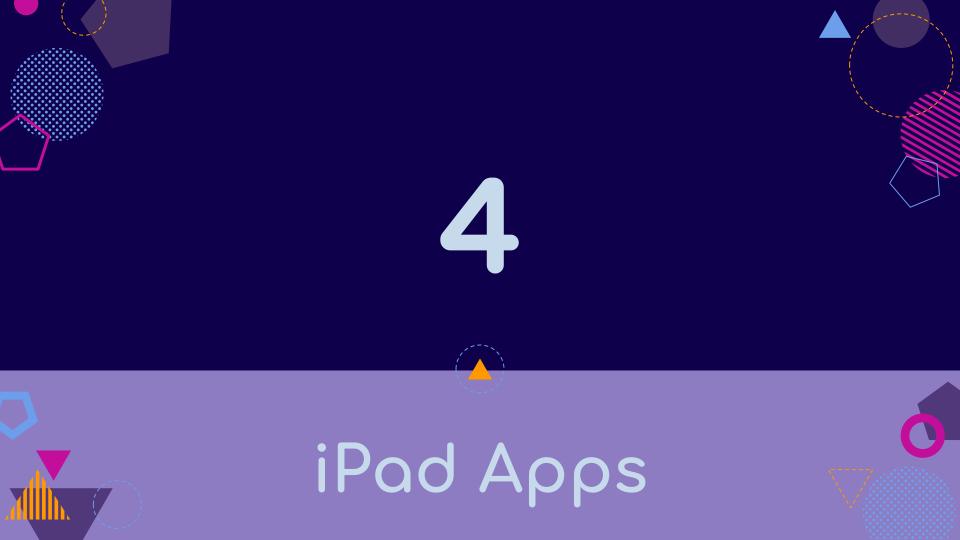


Advanced:
I got this, may
have some
strategies to
share with
you!



Management

- 1. Getting started
 a. iPad/Laptop rules
 b. Rotation schedule
- 2. Tracking student work
- 3. Plan where to store files
- 4. Plan for syncing apps/files
- 5. Know district policies for sharing files with parents



Goals for iPad Use Across Curricular Areas

- Differentiate instruction
- Increase student independence
- Raise the level of higher order thinking skills
- Motivate students
- Accelerate basic learning skills

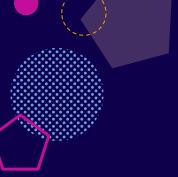


Goals for iPad Use with STEM APPS

- Differentiate instruction
- Increase student independence
- Raise the level of higher order thinking skills
- Motivate students
- Accelerate basic learning skills
- Increase problem solving skills
- Build Grit
- Utilize logical thinking skills







STEM APPS Coding & Creating

- 1. Lightbot Hour
- 2. Kodable
- 3. Scratch Jr.
- 4. Simple Machines (Tiny bop)
- 5. Robot Factory (Tiny bop)
- 6. Everything Machine (Tiny bop)
- 7. Skyscrapers (Tiny bop)







STEM APPs that require other materials

- 1. Blockly
- 2. Osmo

Coding Robots

- 1. Bee Bots/ Code & Go Robot Mouse
- 2. Ozobots



Where do I begin

Unplugged Activities:

Begin with paper/pencil activities.



Introduce activities and apps slowly.

Move to iPad:

The apps we are sharing are easy to use and build on.





Where do I begin Coding?

Unplugged Activities:

Begin with paper/pencil activities.



Definitions: Kodable is a great

resource.



Move to iPad:

The apps we are sharing are easy to use and build on.

Lightbot Hour



Beginning Coding: builds on skills; independent levels; can have more than one player; saves data.



Lightbot Hour Screenshot

1-1





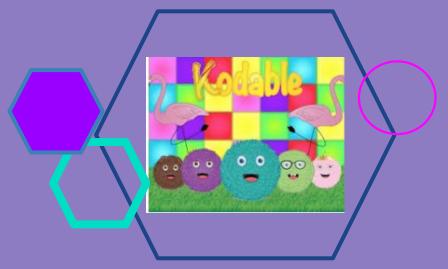








Kodable



Beginning Coding: builds on skills; independent levels; can have more than one player; saves data, can play on computer too!



Kodable Screenshot UH OH... Try Again! **(2)** Test >

Scratch Jr.



Beginning Coding: creating characters, different scenes- almost story telling



Scratch Jr. Screenshot



Tiny bop Apps

Pros:

- Endless creativity
- Unplugged activities to go along with many of the apps.
- Open ended
- Sharing possibilities

Cons:

- ♦ Cost
- Sometimes hard to figure out.



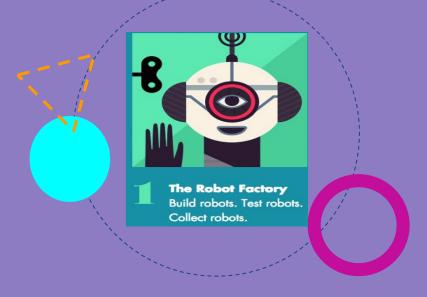


Simple Machines



Exploring force, pushing, pulling, input forces & output forces of the six simple machines. Also has extensions in the handbook for unplugged activities.

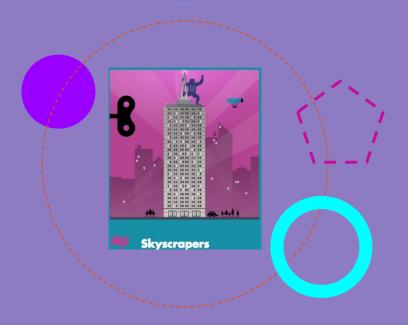
Robot Factory



Build a robot, trial and error, unlimited creativity.



SkyScrapers



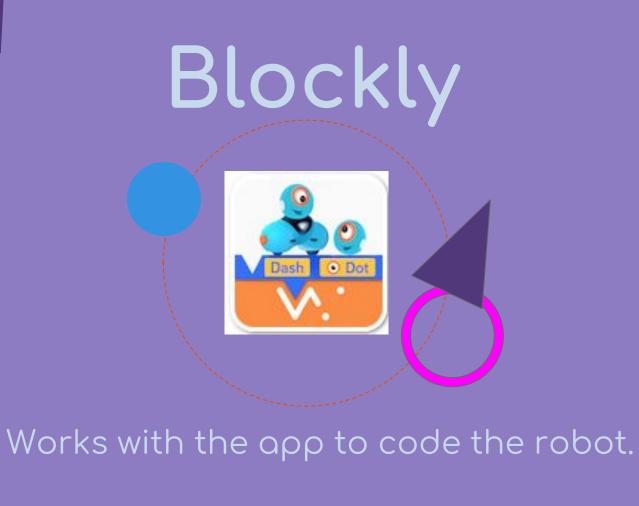
Exploring the innerworkings of buildings, building skyscrapers.

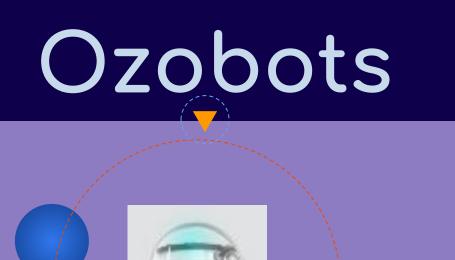


Everything Machine



Figuring out how machines work, with power sources, audio, picture, connecting with other devices.....





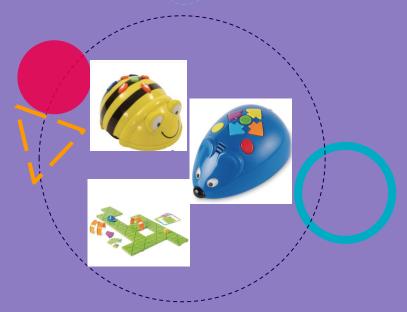








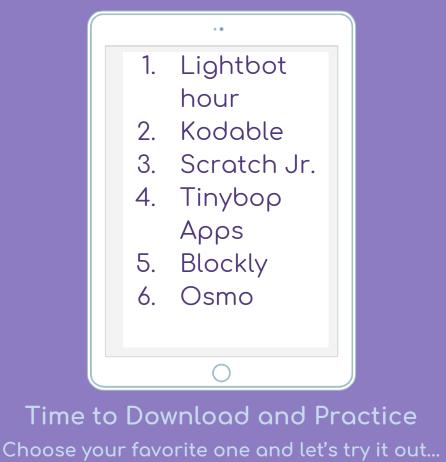
Bee bots/Code & Go Robot Mouse



Easily coded robots. Great for beginners. Can increase difficulty.











Any questions?

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