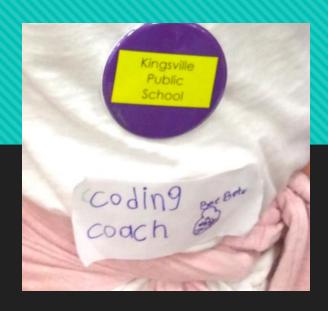
Primary Coding

- Integrating Learning
- Inquiry
- Coding
- Perspective Taking
- Mapping
- Spatial Reasoning



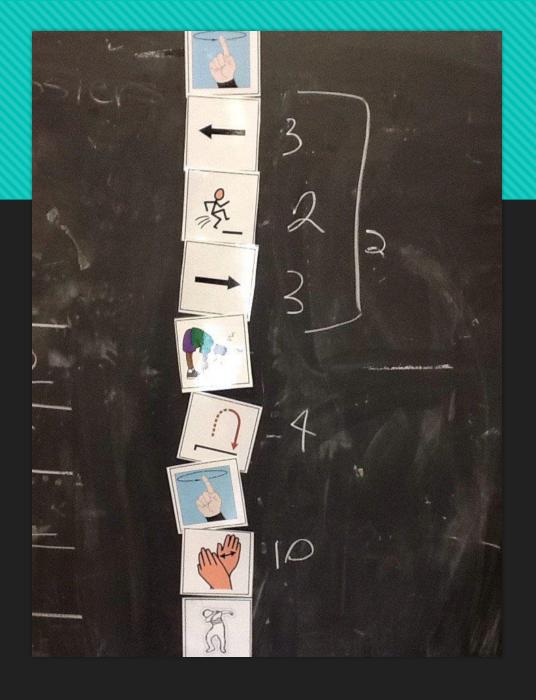
www.kpscobracoders.weebly.com

Janet Molzan Cindy Loop Snyder Elizabeth Pearsall

Code a Dance

Create, Debug, Loop, Collaborate, Code



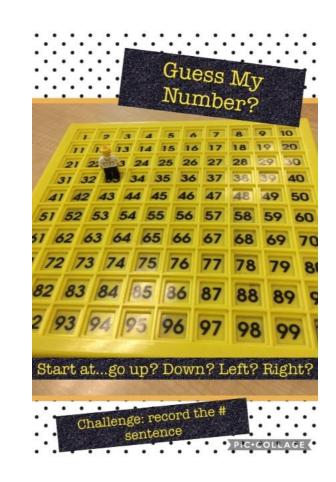


Concepts and Processes of Spatial Learning

- Locating, Orienting Mapping, Coding, Perspective Taking
- OVisualization is the ability to see in your mind's eye spatial patterns and comprehend imaginary movements in space
- Mental Rotation is the ability to mentally rotate 2D and 3D shapes in your mind
- OVisual Spatial Working Memory is the ability to hold and manipulate information in your mind's eye
- OInformation Processing is integrating one piece of information at a time, in sequence or in chunks
- Spatial Language describes math principles and relationships
- Gestures are movements with the body to communicate and help during problem solving.

Unplugged

- Scratch commands for Guess my #? Pattern?
- O Graph paper challenges
- What's my shape visualizing from code
- O 100 chart. Lego

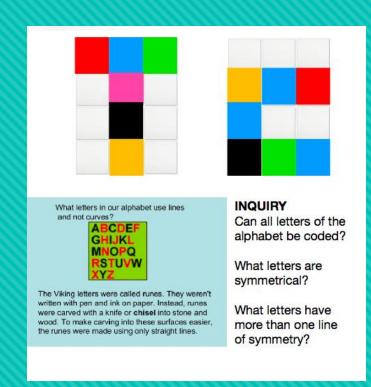




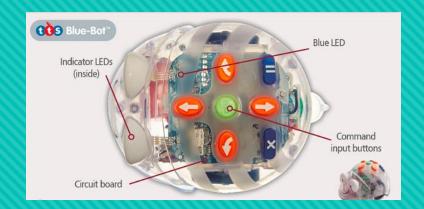




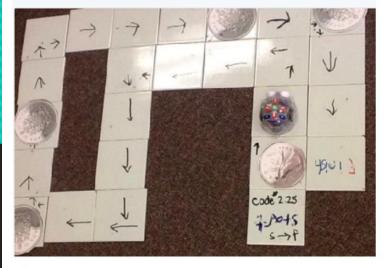
Blue Bot



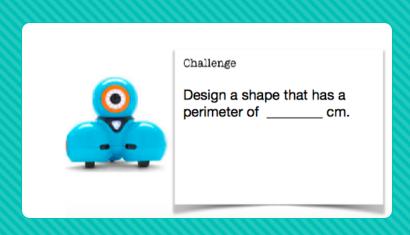
Concrete Coding
Focus on perspective, location, orientation and movement on a grid.
Spatial Language and Integrated Learning

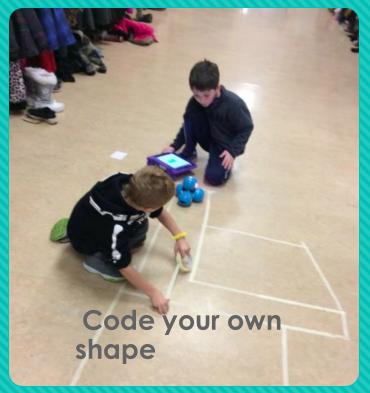






Create Your Own Challenge





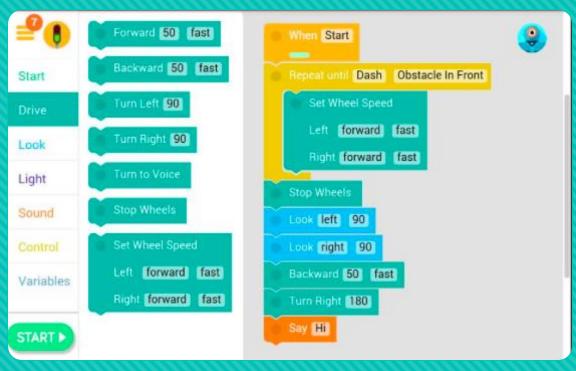


Code to equivalent \$ amounts/values

DASH

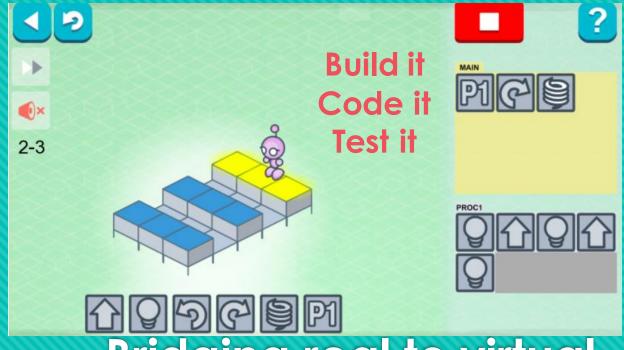
Spatial Reasoning with Coding
Perspective, Location, Orientation, Movement on a grid
Integrating measurement, angles, geometry, number sense...





Wonder

Blockly



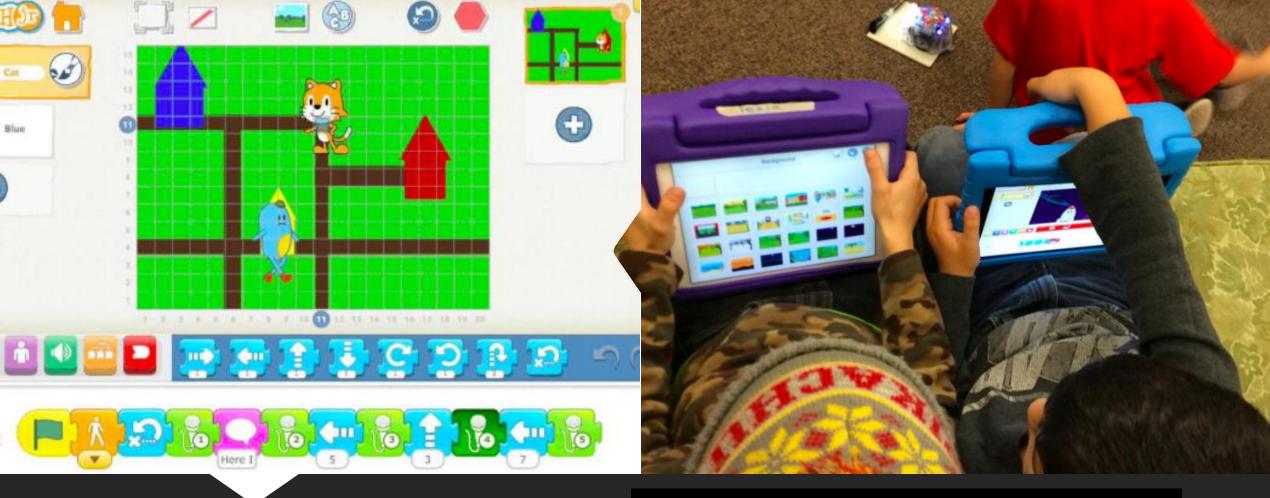
Bridging real to virtual

Integrate spatial concepts and processes and writing with coding.

Debug
Collaborate
Is it congruent?

Light Bot





SCRATCH JR

Code stories (beg middle, end) / water cycle/vacation retell/your math thinking/endless!



www.kpscobracoders.weebly.com



Sandbox... try it out

Guide your own learning

Resources: dance cards, shape cards, Scratch Jr command cards

Adapt, Smash, Morph, Invent, Create Integrate, Connect

App Smash Light Bot and Scratch

Jr to code your structure

O Patterns

Create a number pattern using numbers from 0 to 100.

Justify your pattern to a friend.

Scramble your numbers (put randomly under mat)
Have a friend Code your pattern.

