

Counting, Cardinality & Coding: Making Connections to Number Sense

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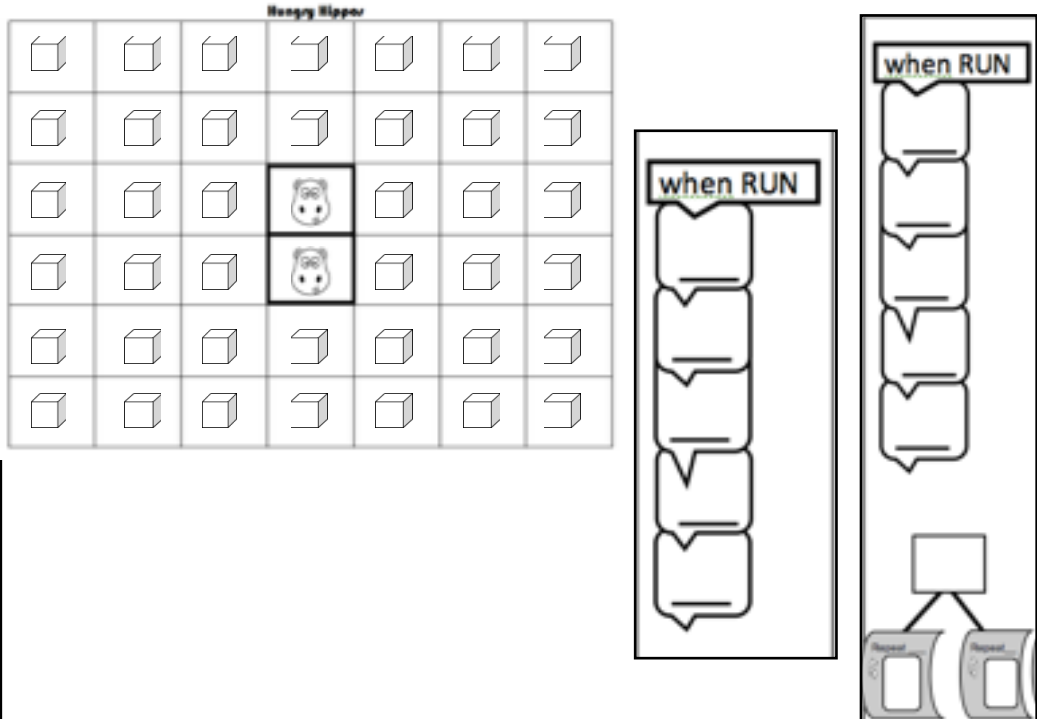
Knox Gifted Academy-Chandler (AZ) Unified School District

Helpful Websites to Get Started

www.code.org (Set up a free account to get standards & teacher resources)	https://education.makewonder.com (Dash and Dot robots)
https://www.scratchjr.org (Tablet needed for students to create)	Check out KGA Kinder CATS on Twitter, Facebook or Instagram

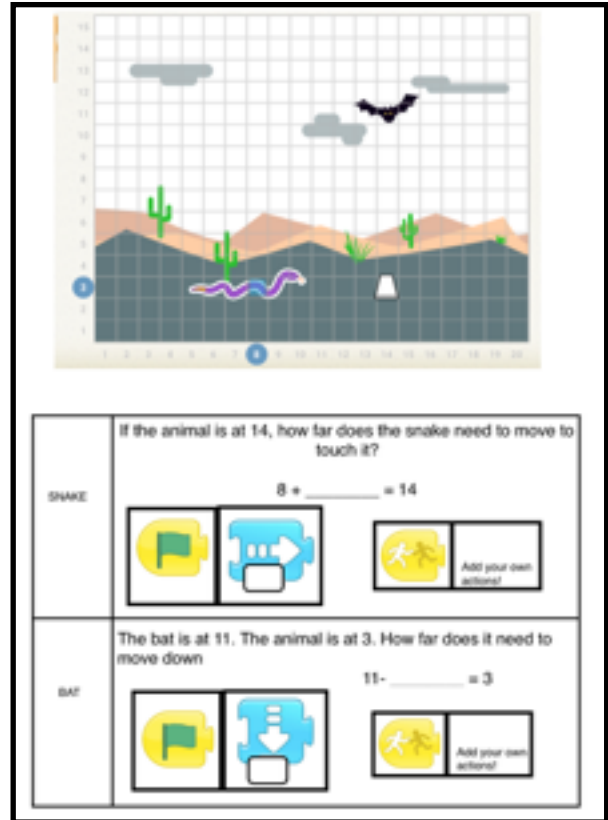
Games to Work on Counting

DOTTY	
<u>Materials</u>	
1 Game Board 1 1-3 number cube 2 Bears 16 counters (8 of 2 colors)	
<u>Directions</u>	
1. Roll the dice & move that many squares. 2. Try and fill your starting zone first.	

HUNGRY HIPPOS	
Materials	
1 number cube 2 Hippo counters Counters	
Directions	
Roll the dice. Only move if you can get counters. IF-you roll 2,3,4,5 THEN-create a program where your hippo <u>only moves 2 directions</u> IF-you roll 0 THEN-roll again IF- you roll 1 THEN-move to an open spot.	

Using Scratch Jr. for Problem Solving

(pictures created with the Scratch Jr. app and pictures from <https://www.scratchjr.org/pdfs/blocks.pdf>)



Program Planning for Dash and Dot Robots

Penguin Problem Solving

Magic Number-100

How would you solve it?

The penguin left its nest.

It waddled forward ____ cm.

Then it slid ____ cm.

It stopped to rest at ____ cm.

Equation to find out where it stopped to rest:

Magic Number 100

Equation to find out where it stopped to rest:

Magic Number 100

Equation to find out where it stopped to rest:

1. Roll 5 dice.
2. Pick 3 numbers to make 100 using addition or subtraction. Write your equation.
3. RULE-You cannot go past 100 with any part of the equation.