Coding in PreK

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Coding in Prek ?

It doesn’t have to be on a computer!

Coding can be done with friends in large groups, small groups and even in centers with easy “Unplugged Activities”.

Code with *or without* a computer

Coding is *not* only about technology.
Coding is about

- LOGIC
- **Problem Solving**
- Creativity !

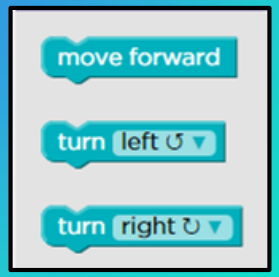
Today we will introduce 3 ways to code with PreK

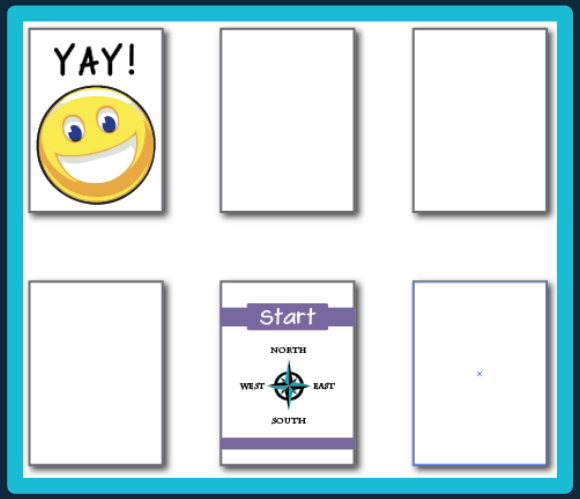
Code with LANGUAGE

Pair familiar activities with new “Coding” words.

Code without a Computer:

Activity	21st Century Word
Move It, Move It	Algorithm
Bee Movers	Program
Alphabet Events	Event
Find the Problem	De-bug





21st Century Word

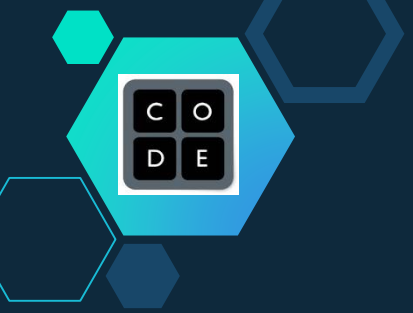
Algorithm

- An algorithm is a list of steps that you can follow to finish a task.

21st Century Word

Event

- An action that causes something to happen.



EVENTS

A B C D E F G H I

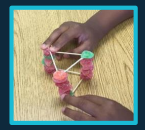
J K L M N O P Q R

S T U V W X Y Z

Code Without a Computer:

Binary Bracelets — BINARY

Sit Stand Binary Chairs — BINARY



Building a Foundation — PERSISTENCE

Getting Loopy Dance — LOOP

21ST CENTURY WORD

BINARY

- A way of representing information using only two options.

A	■□■■	■■■□	N	■□■■	□□□■
B	■□■■	■■□■	O	■□■■	□□□□
C	■□■■	■■□□	P	■□■□	■■■■
D	■□■■	■□■■	Q	■□■□	■■■□
E	■□■■	■□■□	R	■□■□	■■□■
F	■□■■	■□□■	S	■□■□	■■□□
G	■□■■	■□□□	T	■□■□	■□■■
H	■□■■	□■■■	U	■□■□	■□■□
I	■□■■	□■■□	V	■□■□	■□□■
J	■□■■	□■□■	W	■□■□	■□□□
K	■□■■	□■□□	X	■□■□	□■■■
L	■□■■	□□■■	Y	■□■□	□■■□
M	■□■■	□□■□	Z	■□■□	□■□■

1 - 0

on - off

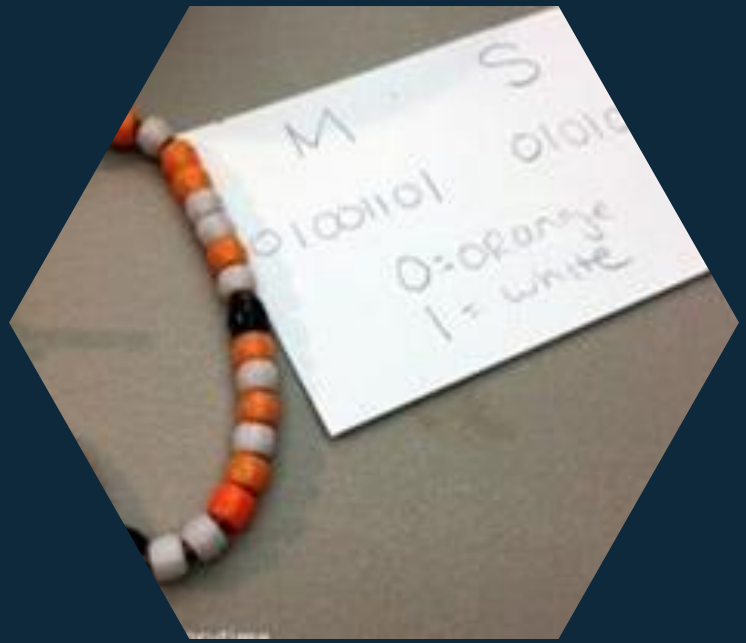
sit - stand

up - down

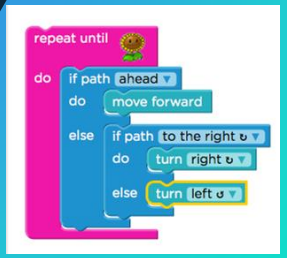
in - out

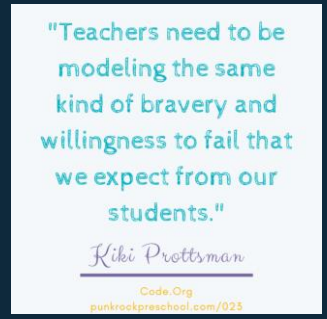
red - blue

BINARY



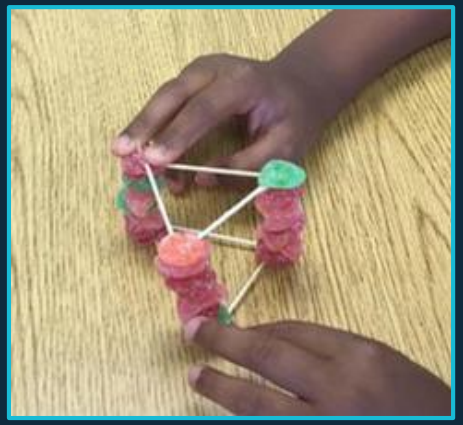
A	■□■■	■■■□	N	■□■■	□□□■
B	■□■■	■■□■	O	■□■■	□□□□
C	■□■■	■■□□	P	■□■□	■■■■
D	■□■■	■□■■	Q	■□■□	■■■□
E	■□■■	■□■□	R	■□■□	■■□■
F	■□■■	■□□■	S	■□■□	■■□□
G	■□■■	■□□□	T	■□■□	■□■■
H	■□■■	□■■■	U	■□■□	■□■□
I	■□■■	□■■□	V	■□■□	■□□■
J	■□■■	□■□■	W	■□■□	■□□□
K	■□■■	□■□□	X	■□■□	□■■■
L	■□■■	□□■■	Y	■□■□	□■■□
M	■□■■	□□■□	Z	■□■□	□■□■





21st Century Word

PERSISTENCE



- Trying again and again even when something is very hard.

Code with TOYS

Encourage exploration of new toys to describe change and movements.

Cubetto

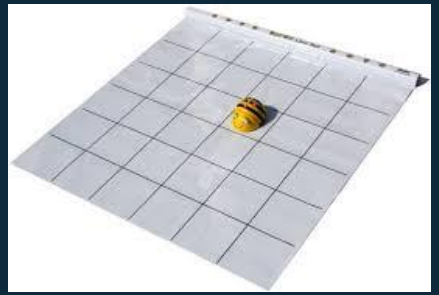
BeeBot

Code Without a Computer:

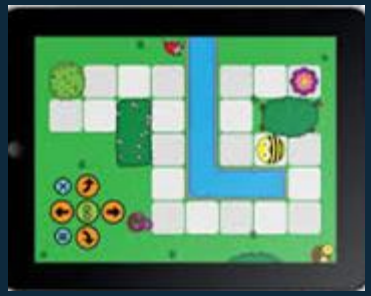
BeeBot

Easy coding robot that teaches one step directions. Create your own path with charts, blocks, or carpet squares !

Back
Forward
Right
Left
CLEAR
Clear
GO
Go
PAUSE
Pause

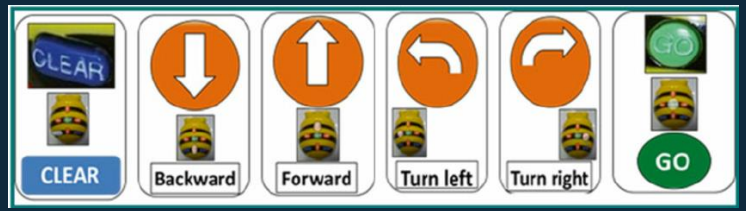


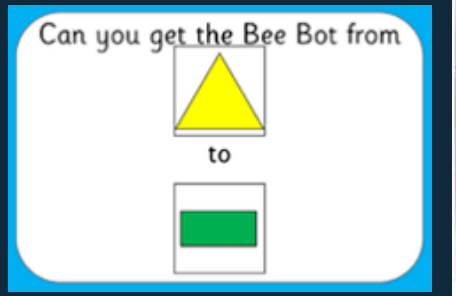
PAUSE

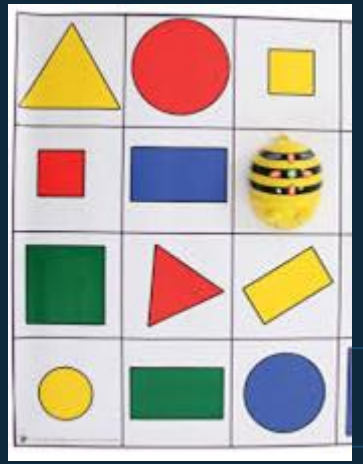


a b c d e
f g h i j
k l m o
p q r s t
u v w x y
z

START HERE
1
2


CLEAR
Backward
Forward
Turn left
Turn right
GO


Can you get the Bee Bot from
to



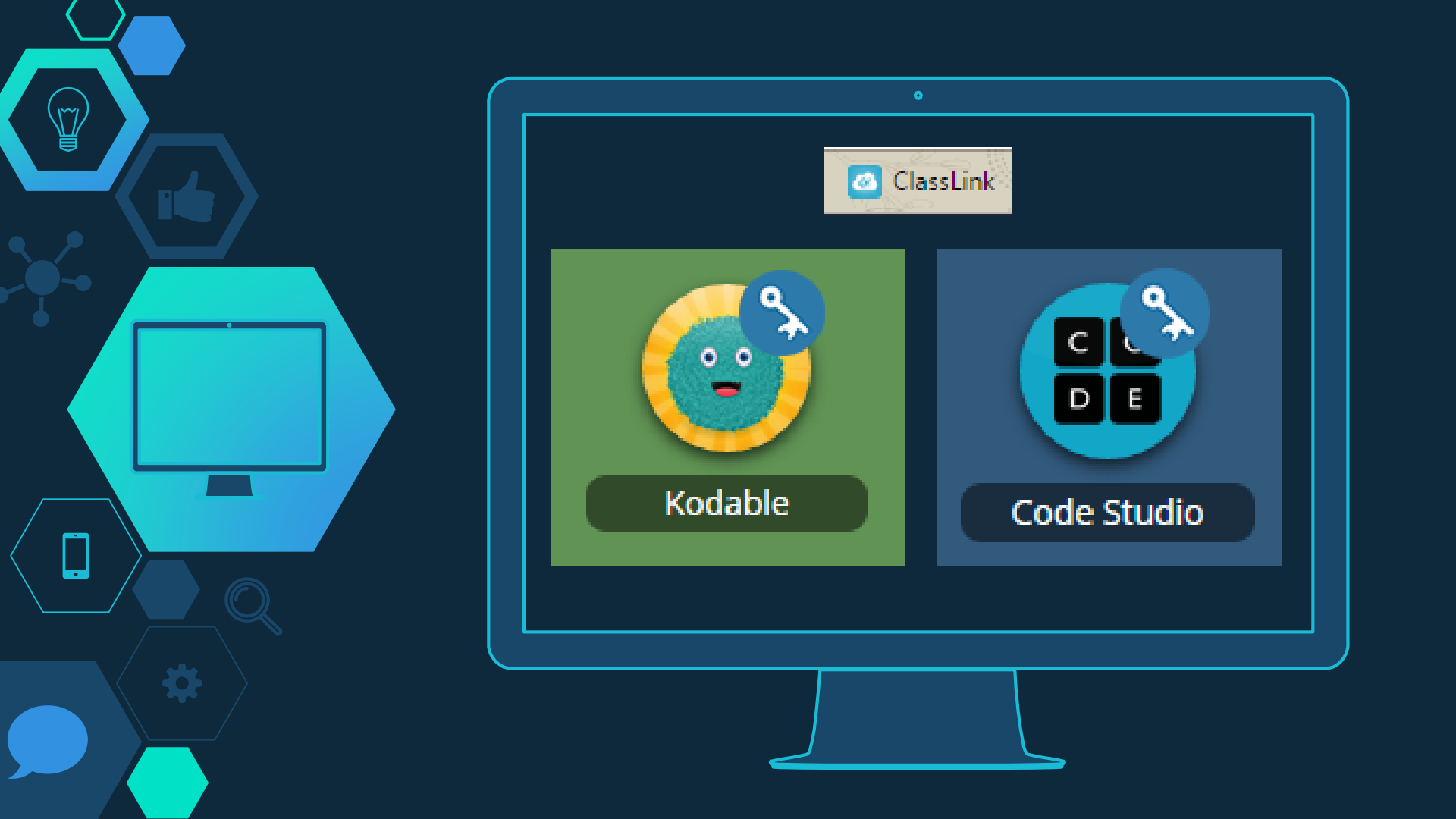
Code Without a Computer:

Cubetto

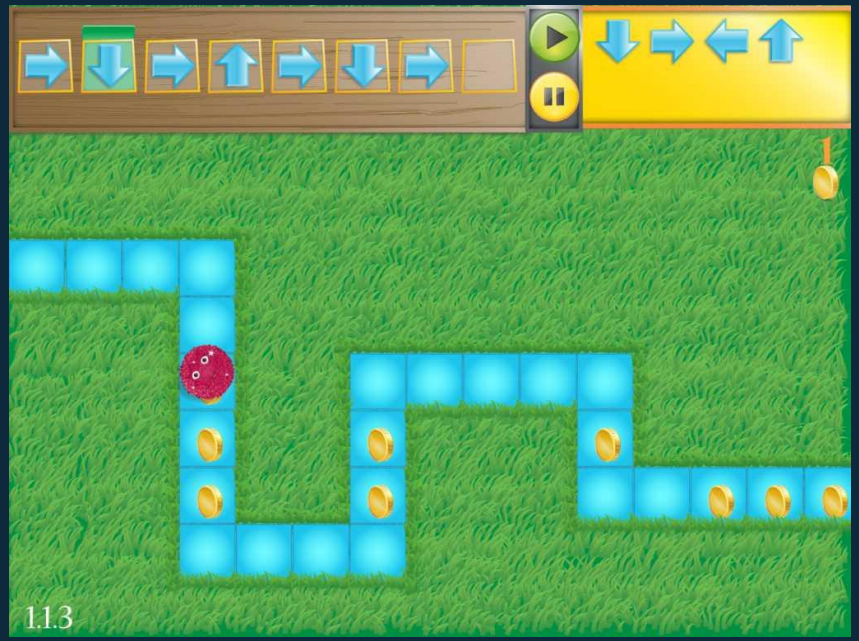
Durable coding robot that includes directional pieces to snap on a coding board. Then just press go!

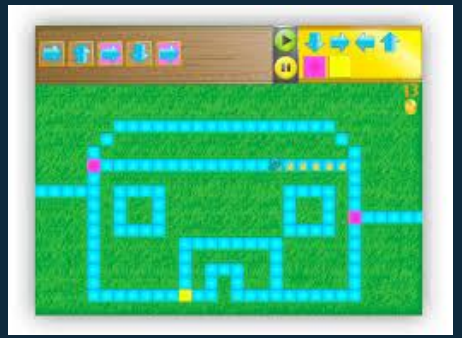
Code with SCREENS

Encourage games that follow, fix and predict.


ClassLink
Kodable
Code Studio

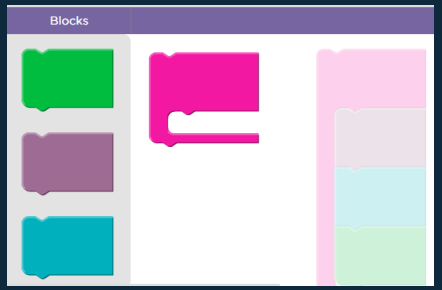
Kodable

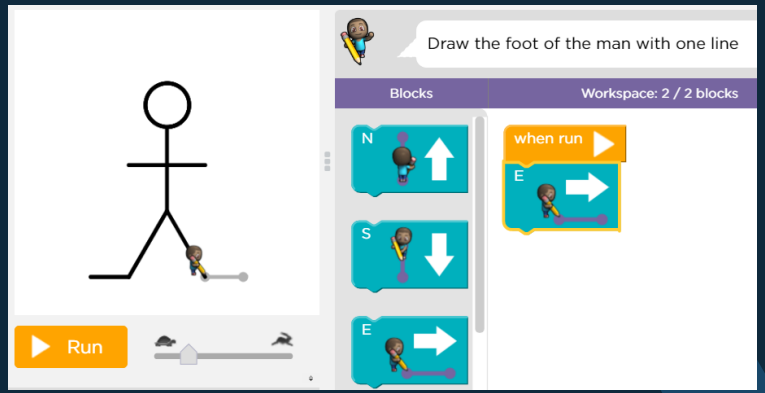




Find Kodable on any device and on ClassLink.
Website to sign up for your own class: https://www.kodable.com/
Website to try: https://game.kodable.com/ Enter class code codeinpk

Code.org





Code Studio

Find Code.org on any device and on ClassLink.
Website to sign up for your own class: https://code.org/
Website to try: http://studio.code.org/sections/FRTXKC

Ideas to Share?
Questions to Ask?

Keep in Touch

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