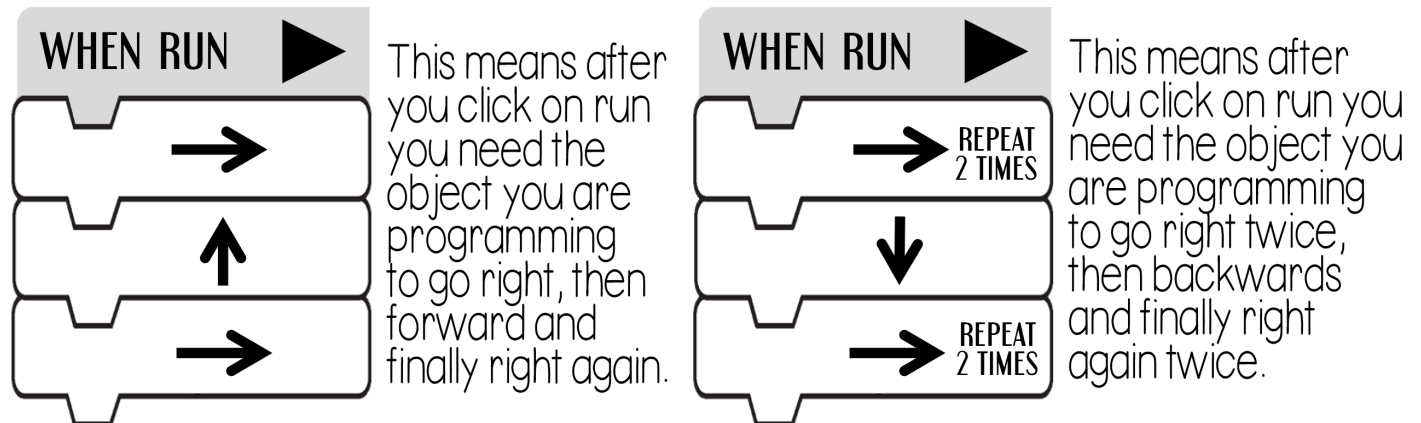


CODING CHALLENGE

Draw a Pumpkin Based on an Algorithm

Years ago when people learned to code, they needed to learn a computer language like Cobol, Basic or C++. The languages feature a combination of words, letters, numbers and symbols.

A few years ago Neil Fraser invented a coding language called Blockly Blocks which features visual block programming. A series of command or function blocks are linked together vertically to create an algorithm or series of steps needed to complete a task.



Coding sites for children like Tynker and Code.org feature Blockly Blocks in their coding activities. Before you have them put Blockly Blocks together online, you can have them follow an algorithm offline. One way they can work with a Blockly Block algorithm is to follow the steps you need to draw an object like a pumpkin. The algorithm or series of steps needed to draw and color a pumpkin can be found on the Drawing a Pumpkin Based on an Algorithm worksheet.



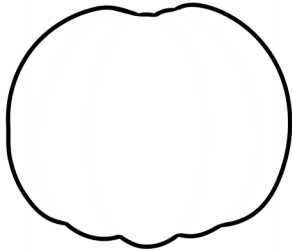
What will they do? Your children will draw what is mentioned or pictured in each of the blocks from the top block to the bottom block. When they are completed each step displayed in the block, they will have drawn a pumpkin.

DRAW A PUMPKIN BASED ON AN ALGORITHM

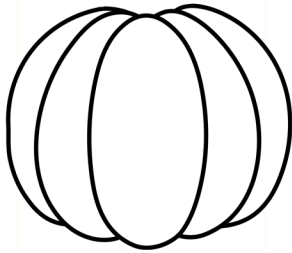
WHEN RUN



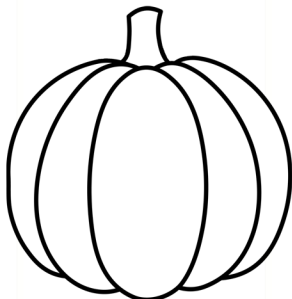
**DRAW A
PUMPKIN SHAPE**



**DRAW FOUR
PUMPKIN LINES**



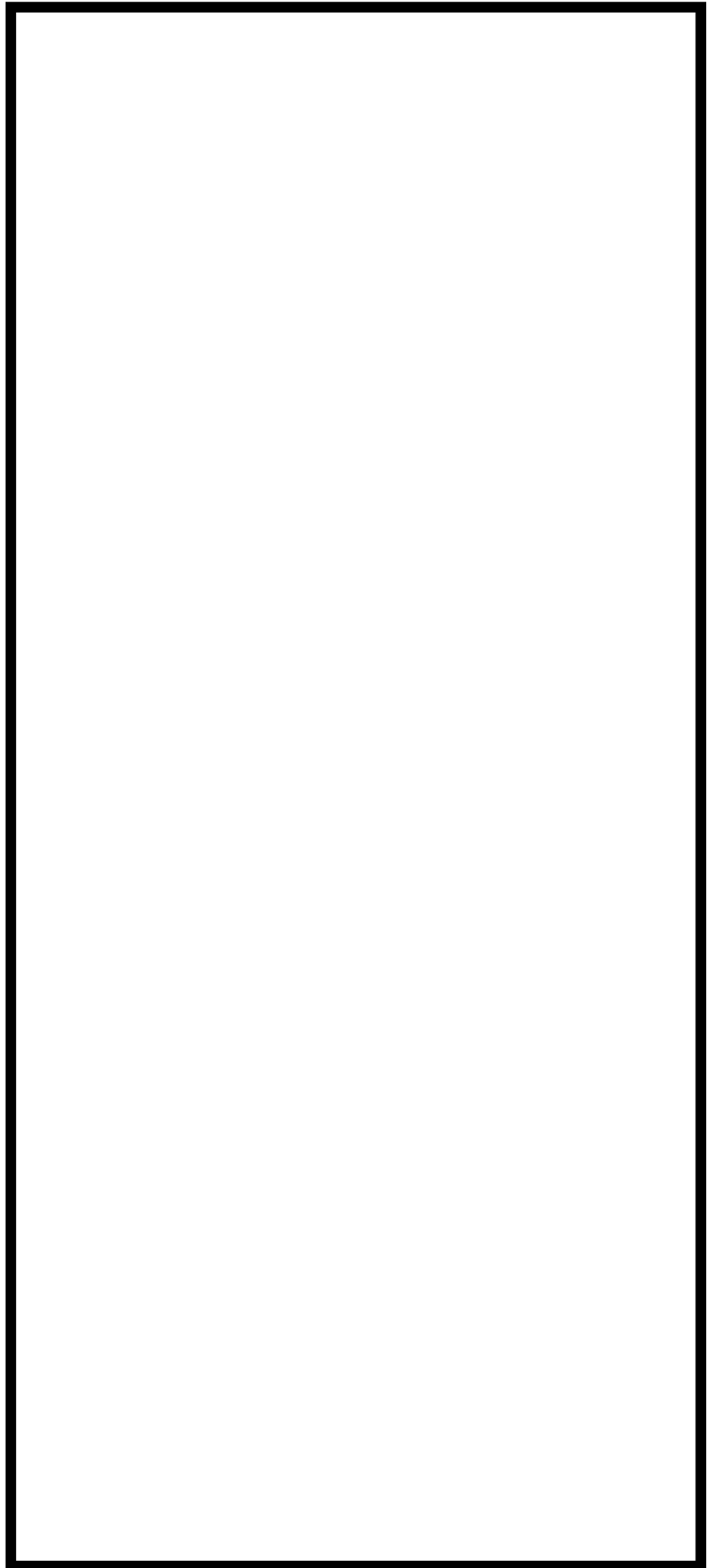
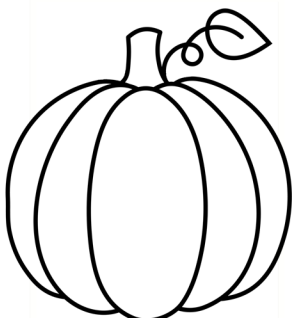
**DRAW A
STEM**



**DRAW A
TENDRIL**



**DRAW A
LEAF**



Keep Exploring STEM

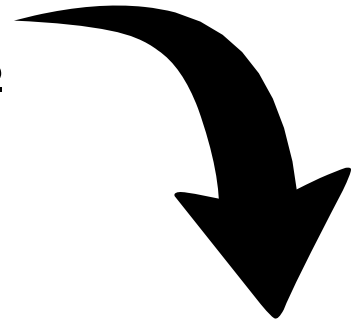
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Little Bins for Little Hands helps make hands-on learning easy for families and educators by providing simple, engaging science experiments, STEM activities, art projects, and printable resources that encourage curiosity, creativity, and learning through play.