

Marble Run Challenge

Create a setup that allows you to control the roll of a tire from the top of a tower to the bottom using motors as valves

Think like an engineer:

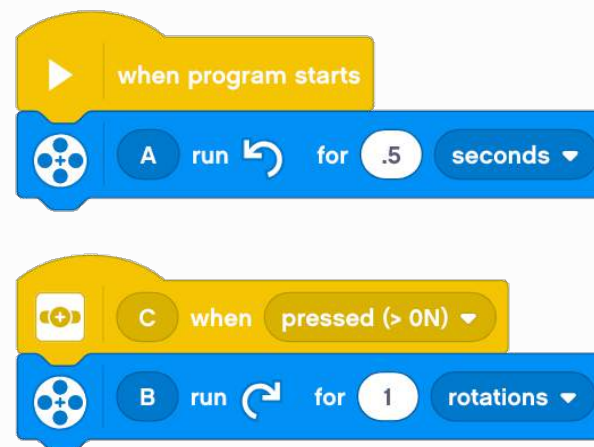
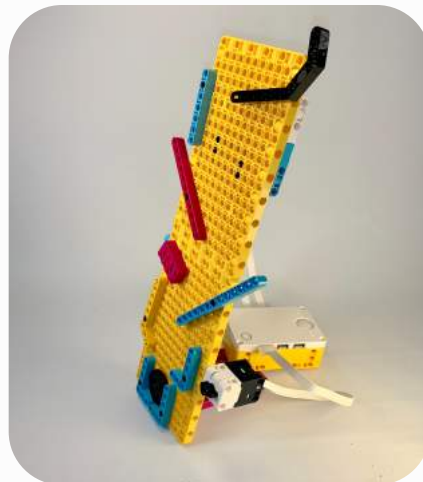
How can you counteract gravity and control the tire as it falls?

Think like a musician:

How could you add sounds to your marble run?

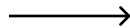
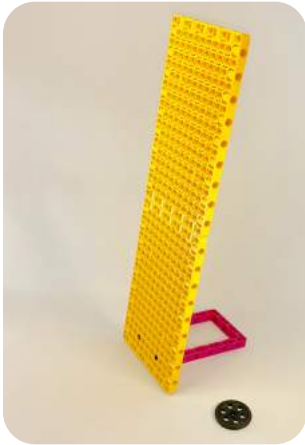
SAMPLE IDEA

Feel free to come up with something completely different!

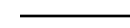
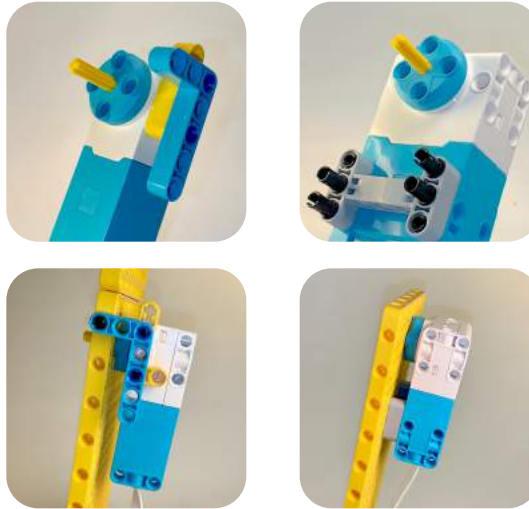


BUILD IT

Create a surface for the skinny wheel to roll down



Attach Motors

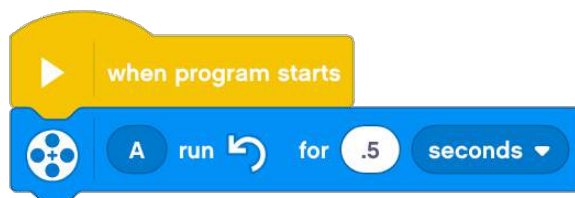


Add obstacles (both permanent and motor controlled)



CODE IT

Control the first motorized piece by turning the motor counterclockwise to start the wheel rolling



When the wheel reaches the second motorized piece, press the touch sensor. This turns the second motor clockwise, allowing the wheel to roll to the bottom

