

Tug-of-War Challenge

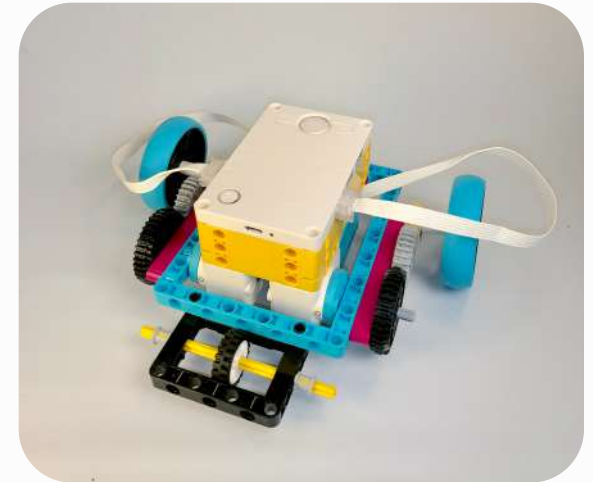
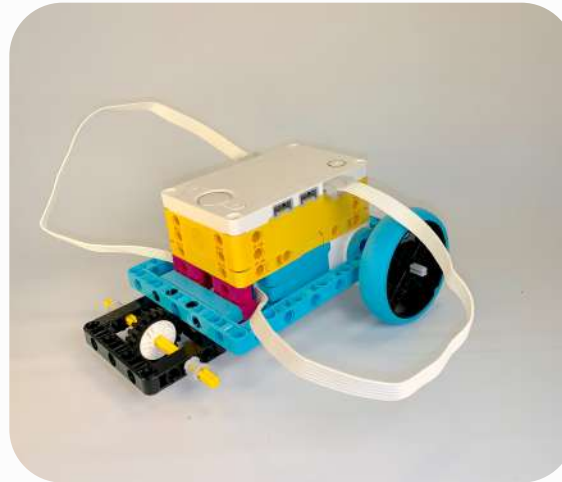
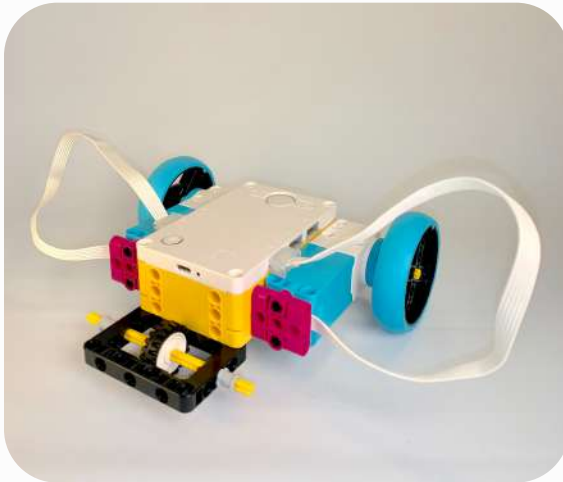
Design a car that can pull another car over a line. Cars will be attached with a LEGO brick.

Think like an engineer:
How can you integrate a gear train into your car design?

Think like a physicist:
How will motor speed impact your robot's pulling ability?

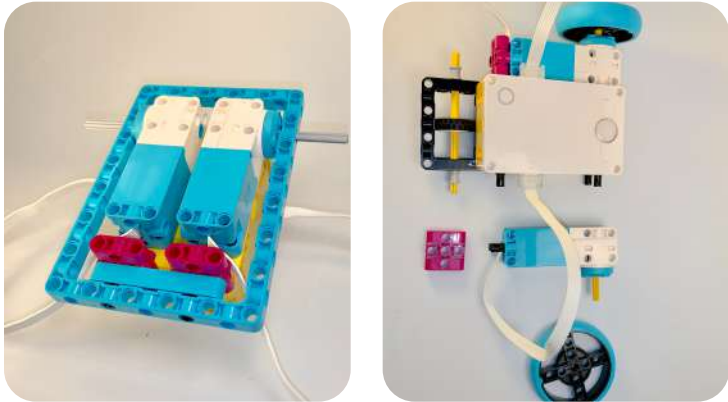
SAMPLE IDEAS

Feel free to come up with something completely different!



BUILD IT

Create a chasis



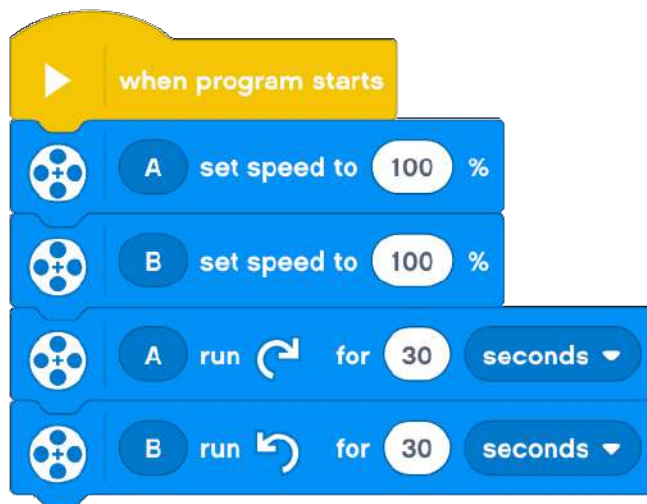
Add front wheel



Create a gear train



CODE IT



To get the car to move forward, the motors need to rotate in opposite directions since they are facing away from each other.

Experiment with motor speed. How will that impact your tugging ability?