# Silly Walks

Build a robot that moves forwards – without using wheels!

## Think Like an Engineer:

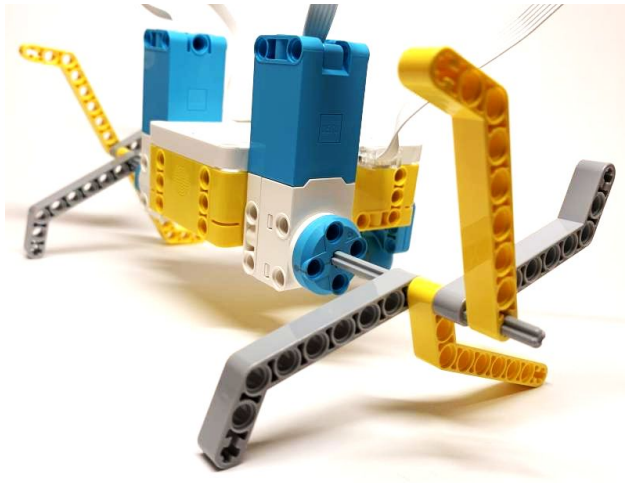
How can you propel your robot forward without wheels?

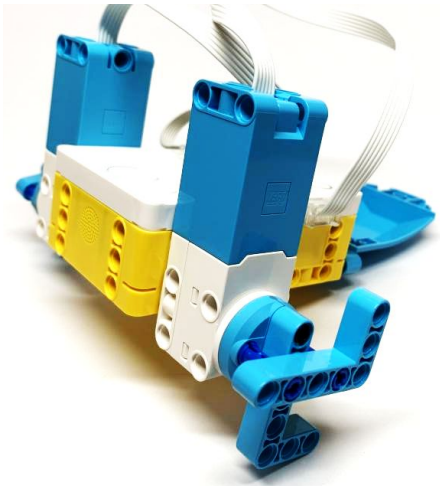
## Think Like a Physicist:

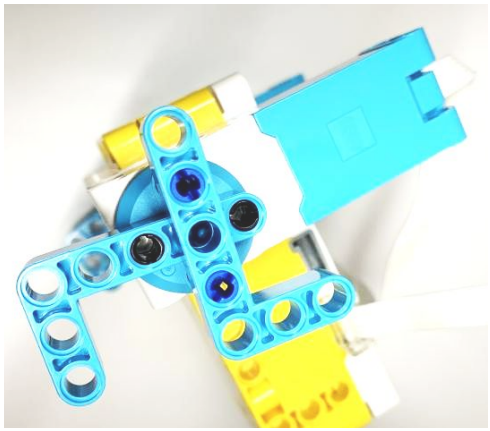
Will your robot move faster with longer or shorter legs?

## Example Ideas

What are different ways you can attach the “legs” to the motor?







*Flip over for more details!*

Tufts University | School of Engineering | Center for Engineering Education and Outreach

● Beginner | All Skills | Mechanics & Movement

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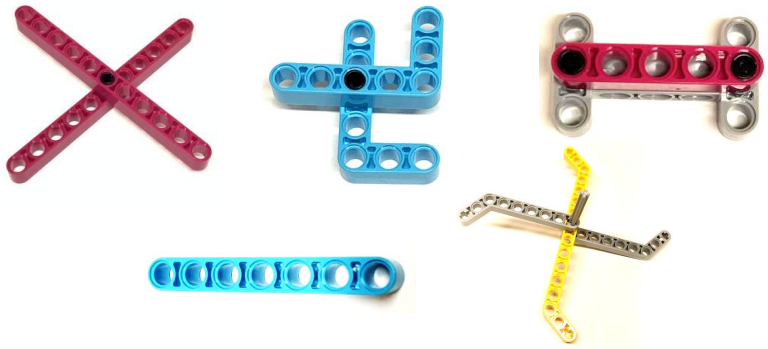
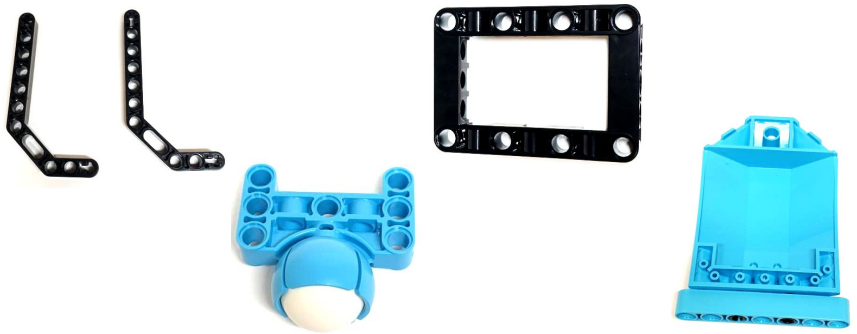
## Build It!

LEGO pieces are versatile! Be creative about what pieces you use and don't be afraid to think outside the box!

You can use these as wheels or legs:



You can use these as stabilizers or supports:



## Code It!

```
1 from spike import MotorPair
2 motor_pair = MotorPair('B', 'A')
3 motor_pair.start_tank(100, 0)
4 wait_for_seconds(1)
5 motor_pair.start_tank(0, 100)
6 wait_for_seconds(1)
```

Do you want your motors to move together or alternate?

How fast do you want your robot to move?

**Try to Modify It:**

- Use a sensor to keep your robot from hitting a wall
- Try making your robot stop in between rotations

## Challenge Yourself!

Try to build a silly walks robot with only one motor.