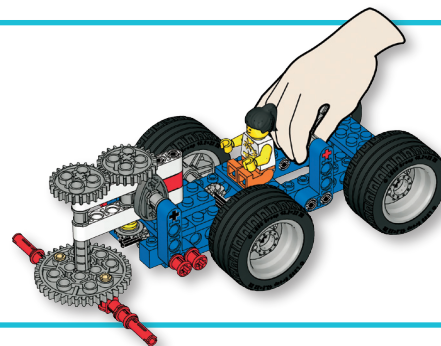# Sweeper

Name(s):

How can you combine pushing a cart with cleaning a path? Let's find out!
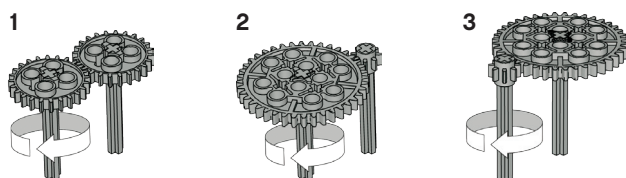
Build the Sweeper

(All of book 1A and book 1B to step 11.)

• Try it
• If it does not spin smoothly loosen the axle bushings and make sure the bricks are firmly linked to one another
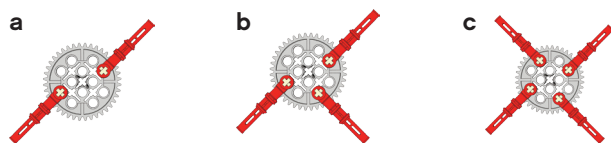
What makes a good Sweeper?

• Test your spin speeds with the gears shown below. Try them with only two sweeper blades **(a)**.

1 **2** **3**

• Now try these sweeper blades with your FASTEST gears to see which one is best at sweeping crumbs
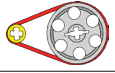
a **b** **c**

• Test different sweepers and compare them with your standard model

Tip: Write the words on the right into the boxes above. You can use them more than once. Make up your own descriptions too.

I tried this	My prediction	What happened?
1a		
2a		
3a		

The same   Faster
       Slower
Worse   Better

A Safer Sweeper

	Prediction	What happened?

My own discoveries:

✏️ **Also try:**
- Holding the sweeper blades while you push the sweeper
- Cleaning up crumbs from a carpet

My Amazing Table Sweeper

Draw and label your Sweeper design.
Explain how the three best parts work.