

# Sweeper

Name(s): \_\_\_\_\_  
 \_\_\_\_\_

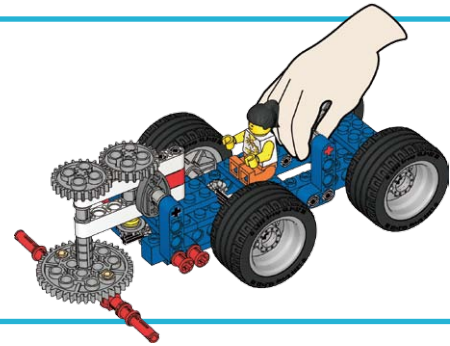
How can you combine pushing a cart with cleaning a path?  
 Let's find out!



## Build the Sweeper

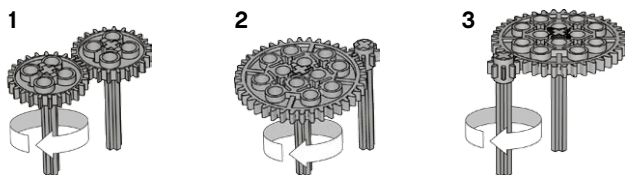
(all of book 1A and book 1B to step 11).

- Try it
- If it does not spin smoothly loosen the axle bushings and make sure the bricks are firmly linked to one another

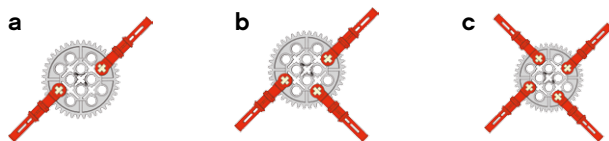


## What makes a good Sweeper?

- Test your spin speeds with the gears shown below. Try them with only two Sweeper blades (a).



- Now try these Sweeper blades with your FASTEST gears to see which one is best at sweeping crumbs



- Test different Sweepers and compare them with your standard model

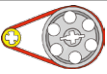
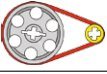
Tip: Write the words on the right into the boxes above. You can use them more than once. Make up your own descriptions too.

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

*The same*      *Faster*

*Worse*      *Slower*      *Better*

### A Safer Sweeper

	Prediction	What happened?
		
		

My own discoveries:

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**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 3 best bits work.