Flywheeler

Name(s):	
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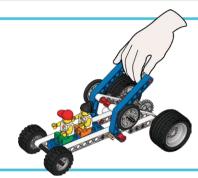
Could the spinning of a spinning top help a push-along car move, and will it travel further – and for a longer time? Let's find out!



Build the Flywheeler

(all of book 10A and book 10B to page 10, step 20).

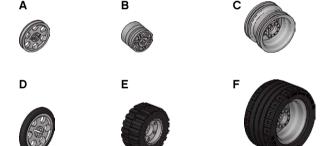
- · Make sure it rolls smoothly
- If it stops too quickly, loosen bushings and make sure all other elements fit tightly



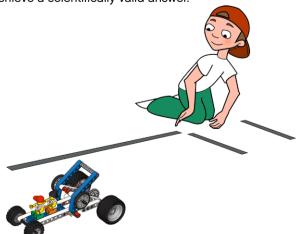
What makes a good flywheel?

Predict and test how far each model will roll:

- · With at least 3 different flywheels or combinations
- · With the same run-up
- Launched at the same speed
 Optional: time how long each car rolls for



Test at least 3 times with each flywheel combination to achieve a scientifically valid answer.



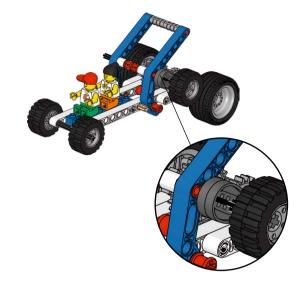
My combination	My prediction	Actual distance	Time
A+B			

Flywheeler Student Worksheet

Shakey Brakey

(book 10B page 17, step 3). What happens if your flywheel is unbalanced?

Мур	rediction:			
And	this happer	ned after te	esting:	





Also try:

- · Climbing up hills
- On smooth floors and carpets
- Climbing over an all-terrain obstacle course, e.g. a pile of LEGO® bricks!

My Fab Flywheeler

Draw and label your Flywheeler design. Explain how the 3 best bits work.