Flywheeler

Name(s):

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 three different flywheels or combinations
- With the same run-up
- Launched at the same speed

Optional: time how long each car rolls for

В









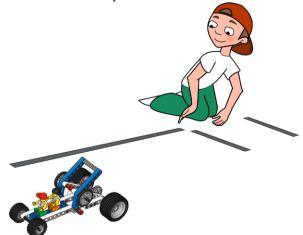




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Test at least three times with each flywheel combination to achieve a scientifically valid answer.



My combination	My prediction	Actual distance	Time
A+B			

Did you know? In real life, an off-balance super fast flywheel can explode!

Shakey Brakey

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

My prediction:

And this happened after testing:





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 three best parts work.