# The Walker

Name(s):
----------

How can you make a walker that will carry Jack and Jill along the trail?

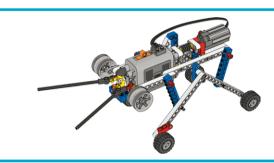
Let's find out!



### **Build the Walker**

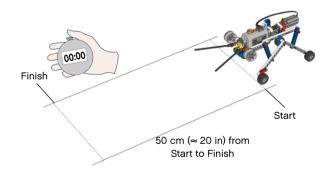
(all of book 13A and book 13B to page 13, step 18)

- Make sure the power lead is held clear of all moving parts
- Place it on a smooth surface and start the motor by pushing the battery switch forward
- The legs should move freely



#### How fast can the walker walk?

- First predict how long it will take the walker to walk 50 cm (≈ 20 in) using leg setting A. Then test your prediction. Next, follow the same procedure for leg settings B and C.
- Test several times to make sure your results are consistent.



	My Prediction	My Measurements
A		
В		
С		

Can	you	explain	wnat	tne	ratchets	do?

The Walker Student Worksheet

## Climbing over hills

- · Make a low hill from a big book or ring binder
- Place the walker as shown in the illustration
- First predict which leg settings A, B or C is fastest for climbing over hills? Then test which in fact is the fastest hill climber.



		My Prediction	My Measurements
A			
В	500 Ce		
С			

slow Fastest Fa	ast
-----------------	-----

## My Walker

Draw and label your favorite walker design. Explain how the 3 best parts work.