# 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	Tool of the second		
с			

#### Can you explain what the ratchets do?





#### **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
Α			
В	TO CON		
С			



#### **My Walker**

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