Trundle Wheel

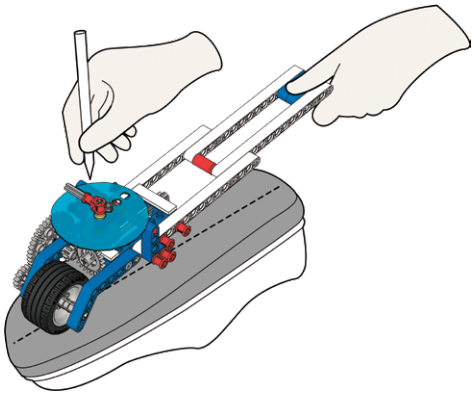
Name(s): _____

_____

What sort of machine can you invent that could measure a long jump?
Let's find out!

Build the Trundle Wheel

(All of book 5A and book 5B to page 6, step 11.)



How many shoes wide is your desk?

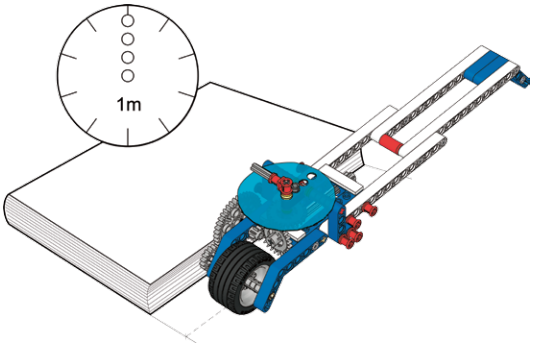
My answer: _____

How many shoe lengths will fit on your dial?

My answer: _____

Measuring objects

- Collect three more objects shorter than 1 m *(≈ 1 yd)*
- Estimate the length of each
- Measure with the trundle wheel
- Measure with a ruler



	My estimate	My trundle reading	My ruler reading
Pen	cm (≈ in)	cm (≈ in)	cm (≈ in)
Pencilcase	cm (≈ in)	cm (≈ in)	cm (≈ in)
	cm (≈ in)	cm (≈ in)	cm (≈ in)
	cm (≈ in)	cm (≈ in)	cm (≈ in)
	cm (≈ in)	cm (≈ in)	cm (≈ in)

Doing the long jump!

- Build your model to page 12, step 11
- Add the 3 m (≈ 3 yds) dial to the trundle wheel
- Predict and then measure your long jump
- Do this three times

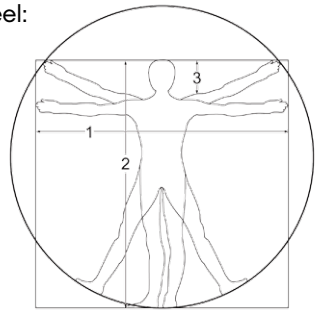
	My prediction	My measurements
Jump 1	cm (≈ in)	cm (≈ in)
Jump 2	cm (≈ in)	cm (≈ in)
Jump 3	cm (≈ in)	cm (≈ in)

In what ways is a trundle wheel better than a ruler?

My answer:

Leonardo's Magic Body Facts

Leonardo's Wheel:



	My estimate	My trundle reading
Arm span (1)	cm (≈ in)	cm (≈ in)
Height (2)	cm (≈ in)	cm (≈ in)
Head (3)	cm (≈ in)	cm (≈ in)

My Amazing Trundle Machine!

Draw and label your creative design for measuring distances. Explain how the three best parts of your amazing machine work.