Trundle Wheel

Na	me	(s)	:

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



Build the Trundle Wheel

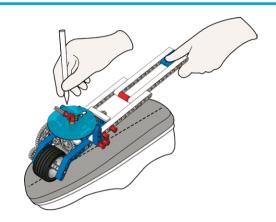
(all of book 5A and book 5B to page 6, step 11)

How many shoes wide is your desk?

My answer:

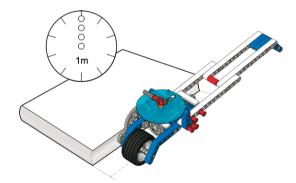
How many shoe lengths will fit on your dial?

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	My Trundle	My Ruler
	Estimate	Reading	Reading
Pen	cm	cm	cm
	(≈ in)	(≈in)	(≈in)
Pencil Case	cm	cm	cm
	(≈ in)	(≈in)	(≈in)
	cm	cm	cm
	(≈ in)	(≈in)	(≈in)
	cm	cm	cm
	(≈ in)	(≈in)	(≈in)
	cm	cm	cm
	(≈ in)	(≈in)	(≈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



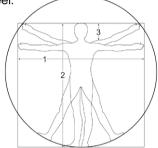
	My Prediction	My Measurements
Jump 1	cm (≈in)	cm (≈ in)
Jump 2	cm (≈in)	cm (≈ in)
Jump 3	cm (≈in)	cm (≈ in)

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.