



MATHEMATICS



N.S. Yr. 1 P.74

**Suggest suitable units to
estimate and measure**

Equipment

Paper, pencil, ruler
Various items to measure.

MathSphere

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Concepts

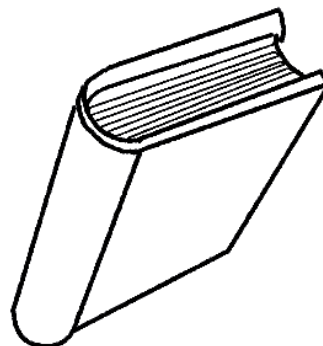
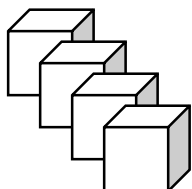
A further aspect to measurement is to be able to suggest and use suitable units of measurement. At first these might be cubes, whether for measuring length or mass, but later standard measurements should be used.

When discussing the work which is carried out on a practical basis, children should become familiar with terms such as:

About how many,
Roughly
Nearly
About the same as
Too many
Too few
Enough
Not enough

At this early stage it is also important to get children to estimate before they measure - and not be too concerned whether their estimation is absolutely correct or not - the important part is that the estimate is sensible.

Cubes and books



You need lots of cubes and some books.

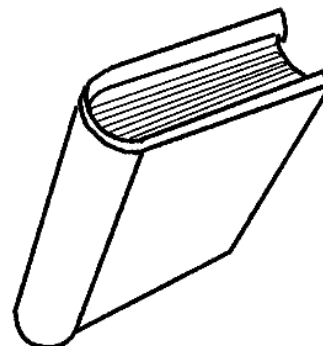
Guess how many cubes would fit across your book.

Find out by putting them across your book.

Now try with other books.

	Guess	Measure
Book 1		
Book 2		
Book 3		
Book 4		

Matchsticks and books



You need lots of matchsticks and some books.

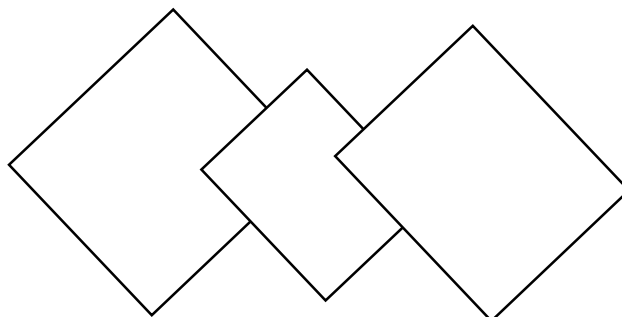
Guess how many matchsticks would fit across your book.

Find out by putting them across your book.

Now try with other books.

	Guess	Measure
Book 1		
Book 2		
Book 3		
Book 4		

Cubes and paper



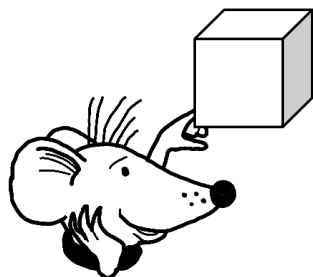
You need lots of cubes and some large sheets of paper, all different sizes.

Guess how many cubes would fit across your paper.

Find out by putting them across your paper.

Now try with other pieces of paper.

	Guess	Measure
Paper 1		
Paper 2		
Paper 3		
Paper 4		

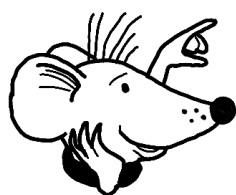


Cubes and things

See how many cubes will fit across these things.
Have a guess first and see how close you get.

Fill the table in with your guess and then your measurement.

Object	Guess	Number of cubes
Pencil		
Table top		
Pencil case		
Crayon		
Paint brush		
Floppy disk		
Computer		

**How many matchsticks to go across?**

See how many matchsticks will fit across these things.
Have a guess first and then see how close you get.

Fill the table in with your guess and then your measurement across the objects.

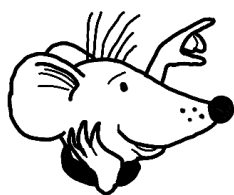
Object	Guess	Number of matchsticks
A number card		
This paper		
A box		
A CD case		
Paint brush		
A photograph		
An envelope		

Fill the jug

How many cups of water
will fill a jug?

How many yoghurt pots?
Guess and find out.

Object	Guess	Number to fill jug
A cup		
A jam jar		
A yoghurt pot		
A bottle		



Fill the bucket



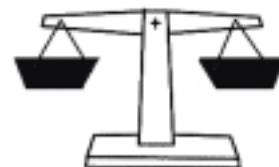
You need a bucket, water and some different cups, jars etc. See how many cups of water fill the bucket...

Fill the table in with your guess and then count how many will fill the bucket

Object	Guess	Number to fill the bucket
A cup		
A jam jar		
A jug		
A bottle		

How many cubes will balance

You need a set of
balances, cubes and
things to balance.



See how many cubes will balance each of these.

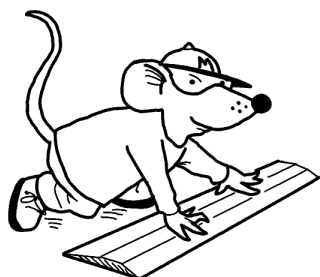
Have a rough guess first.

Object	Guess	Number of cubes
A book		
A cup		
A CD case		
A paint brush		
A pencil		
A ruler		

Which units?

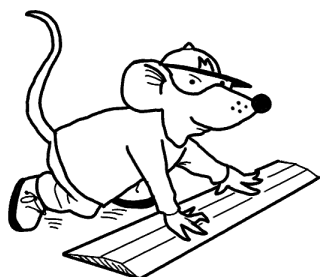
If you had to measure these things, what unit would you use?

<u>Object</u>	<u>Unit</u>
The height of a table	
The weight of a packet.	
The length of a pencil.	
How much a cup holds.	
The weight of an apple.	
The length of the playground	
The distance to the sea.	

Which units?

If you had to measure these things, what unit would you use?

<u>Object</u>	<u>Unit</u>
The height of a chair.	
The weight of a book.	
The length of a crayon.	
How much a jar holds.	
The weight of an orange.	
The length of the corridor.	
The distance to London.	

Which units?

Now, what units would you use to measure these?
Write the unit down.

<u>Object</u>	<u>Unit</u>
How much a jug holds.	
The length of a piece of string.	
The weight of some potatoes.	
The width of a tray.	
How much a glass holds.	
The length of the classroom.	
The distance to the moon.	