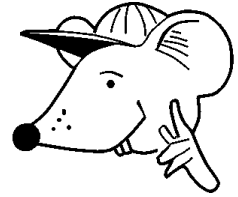




MATHEMATICS



N.S. Yr. 2 P.75

**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 use and begin to read and write these terms:

Estimate

Guess

Approximately

As well as those from year 1:

About how many,

Roughly

Nearly

About the same as

Too many

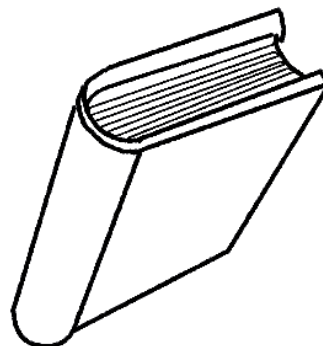
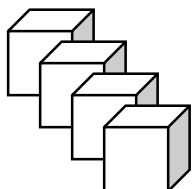
Too few

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.

Lay the book down, flat.

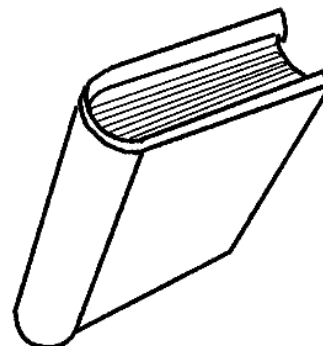
Guess how many cubes would fit round the outside of your book.

Find out by putting them all the way round your book.

Don't forget the corners.

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.

Lay the book down, flat.

**Guess how many matchsticks would fit round the outside of
your book.**

Find out by putting them all the way round your book.

Do you need some half matchsticks?

Now try with other books.

	Guess	Measure
Book 1		
Book 2		
Book 3		
Book 4		

Cubes and tables



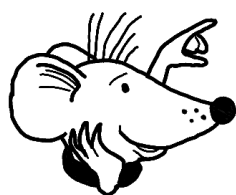
You need lots of cubes.

Guess how many cubes would fit across your table.

Find out by putting them across your table.

Now try with another table, cupboard or chair.

	Guess	Measure
Table 1		
Table 2		
Cupboard 1		
Chair 1		

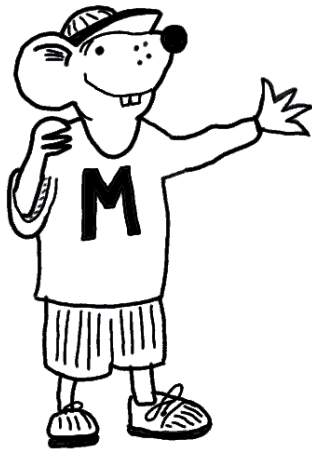
**How many matchsticks to go round?**

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

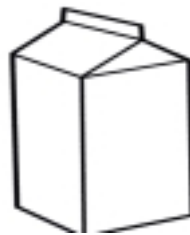
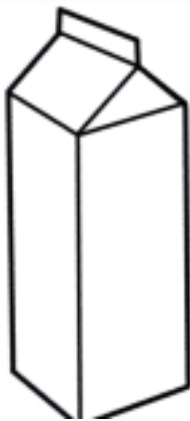
Fill the table in with your guess and then your measurement round the objects.

Object	Guess	Measure
A tray		
This paper		
A mouse mat		
A CD case		
A pencil case		
A lunch box		
An envelope		

Collect containers



Let's make a collection!
See how many different drink
cartons, plastic bottles etc you
can find which have the
amount in them written on the
side eg 250 ml.



Can you sort them into different sizes?



Over here all
those cartons over
half a litre in size.

Which unit?

Centimetres	metres	kilometres	
millilitres	litres	grams	kilograms



Which of the units would you use to measure these things?

A carton of orange squash	
A sack of potatoes	
The length of your foot	
The height of the school	
How much water will fill a sink	
The weight of a pencil	
The distance round your waist	
A teaspoon of medicine	
The height of a flower	
Your weight	

Which unit?

What things could you measure using these units?

centimetres

metres

kilometres

millilitres

litres

grams

kilograms

Can you name it?



You really need your thinking cap on today - I've got mine!

1. What is about 10 centimetres long?

2. What holds about a litre?

3. What will balance 1 kilogram?

4. What is about 7 metres long?

5. What is about a quarter of a litre?

6. What is about 20 centimetres tall?

7. What will balance about 250 grams?

Can you make your own questions up - and then answer them?