



Woodland Measures

Key Stage 1 Numeracy Teachers' notes

This unit of work is based on measurement work from the **National Numeracy Strategy**.

Learning Objectives Covered by this Work

- ② select and use appropriate mathematical equipment when solving problems involving measures or measurement
- ② use the correct language and vocabulary for shape, space and measures
- ② estimate the size of objects and order them by direct comparison using appropriate language
- ② compare and measure objects using uniform non-standard units
- ② compare and measure objects using standard units of length (centimetre & metre)
- ② choose and use simple measuring instruments, reading and interpreting numbers, and scales to the nearest labelled division.

Before the Visit

Provide the children with the opportunity to estimate and measure lengths in practical contexts, including some work outside the classroom environment. In Year 1, this should be done using non-standard units. Standard units should be introduced in Year 2.

Brainstorm objects that might be measured in a woodland environment.

In the Woodland

Which is the biggest object that you can see in the woodland? What is the smallest whole object that you can find?

Select one item from within the woodland that could be used as a non-standard measure. Obvious examples might be a leaf or twig. Retain this item for later work, both in the woodland and in the classroom.

Using the pupil sheet as a resource, find woodland objects that could be appropriately measured using a variety of non-standard and standard units of length, including the found item.

Estimate and then measure the length or height of each of the objects using the unit chosen. For the standard units, select from a pool of suitable measuring equipment, for example rulers, metre sticks, tapes and trundle wheels.

Follow-up Work

Using the item found in the woodland, measure the classroom and selected objects from within it. Are some of the found items more useful for making measurements than others? Why?

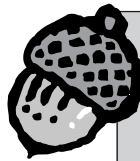
Discuss the advantages and disadvantages of using standard and non-standard units of measurement.



Woodland Measures

Key Stage 1 Numeracy Pupil Sheet

Find things within the woodland that could be measured using the units listed down the left hand side.



	Draw and name the things you have chosen here	My estimate of the length using each unit	My measurement of the length using each unit
Finger widths			
Handspans			
Footprints			
Paces			
My woodland object			
Centimetres			
Metres			