

How Old Is My Tree?



For Teachers

Age: 7 - 11 year olds (Minimum time needed: 1 hour

Curriculum links:

Maths

- Measure and compare lengths (m/cm/mm). Measure the perimeter of simple 2D shapes.
- Present data using bar charts, pictograms, and tables.
- Convert between different units of measure.
- Estimate.

Practice measuring and estimating to work out the ages of different trees.



Get Ready

- Clipboard, paper and pencils
- Long tape measures
- Calculators



Get Set



Discuss:

The differences between measuring and estimating and why might it be necessary to estimate something?



} Tell the group:

-that we can find out how old some trees are using both measuring and estimating.
-on average, trees get 2 cm wider each year. We can use this to estimate the age of a tree if we measure its circumference.
- Working in groups create tables to record the data they will collect when in the forest.
- For five trees they will measure the tree's circumference in metres (m), and then convert that to centimetres (cm).

Tree	Guess at tree age	Girth (m)	Girth (cm)	Age (girth/2.5)
1				
2				
3				
4				
5				



Go

- In groups, choose five trees and try to estimate how old they are just by looking.
- For each tree, measure the tree girth
- · Add the data to the tables.

(circumference) 1.5 m above the ground to avoid the wider roots at the base of the tree. Calculate the ages of the trees using the following: Age = Tree girth (cm)



Discuss:

Did you estimate the age of any of your trees correctly? Which is the oldest/youngest tree that you found?



Go Beyond

Create bar charts to show the range of the calculated tree ages.







