

## Worksheet: Height and Age 1

To do these activities you will need:



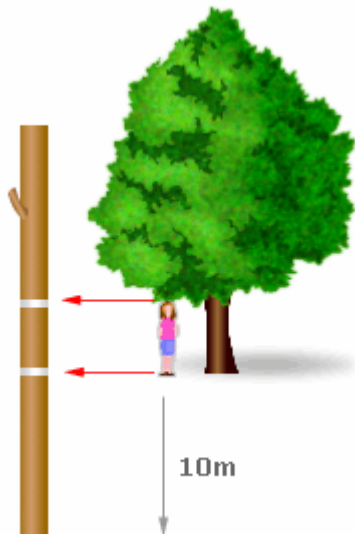
- a tape measure
- plain paper
- a pencil
- a piece of chalk
- calculator



### Activity 1: How tall is your tree?

How could you measure the height of your tree? You would need a very long ruler!

Follow these simple steps to work out the height of a tree.



My height:

1. Get a partner to measure your height.
2. Stand next to the tree with your partner 10m away.
3. Your partner holds up a stick at arms length.
4. They must line the top of the stick with your head. Mark the stick with chalk where it lines up with your feet.
5. Estimate how many times the marked length goes into the height of the tree.
6. Multiply your height by this number to work out how tall your tree is.

**Worksheet: Height and Age 2**

How many times your height fits into the height of the tree:

Multiply your height x the number of times

= height of your tree

How much taller is your tree than you?



**Activity 2: How old is your tree?**

You can calculate the age of your tree using some simple mathematics.

$$\frac{\text{Circumference of trunk (cm)} \times 4}{10} = \text{Age (years)}$$

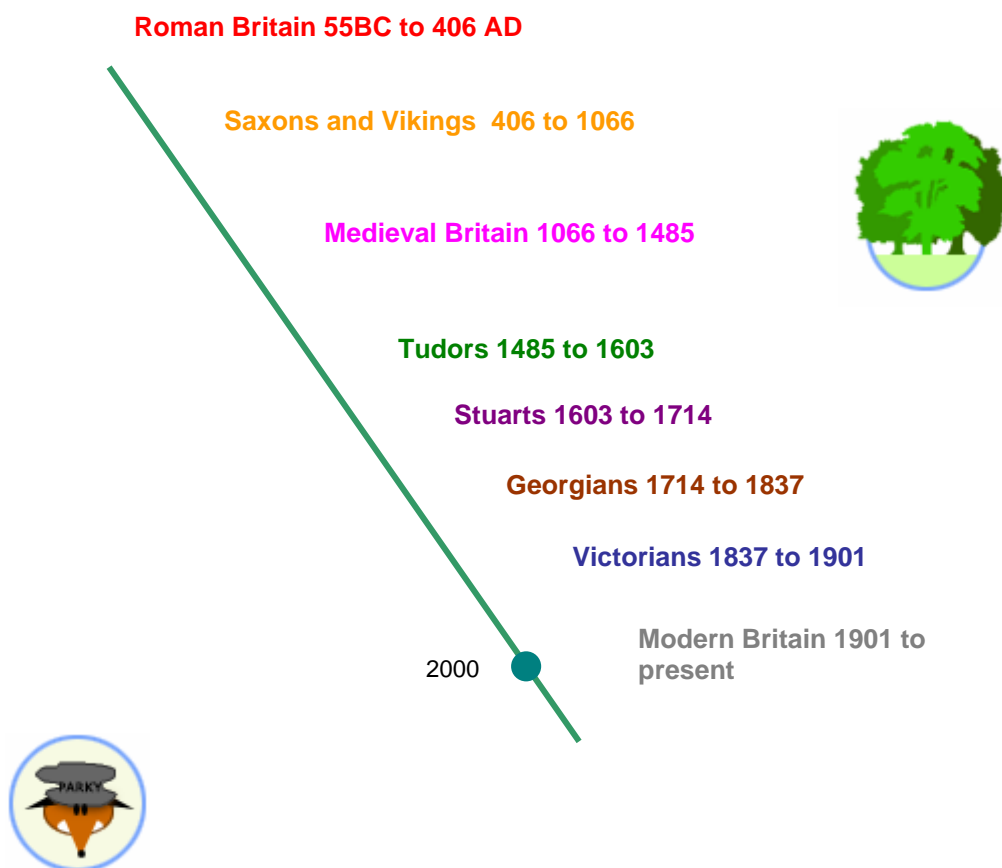
Using a tape measure, measure the circumference of the tree's trunk 1.5m from the ground. This is known as the **girth**. Calculate the age using the equation above.

The age of my tree is:

### Worksheet: Height and Age 3

#### Activity 3: Timeline Time travel:

Draw a small picture of your tree on the timeline below:



#### Did you know?

Most single trees grow an average of 2.5cm of girth every year.

Most parks have trees at least 100 years old – as old as your great grandparents!

Yew trees can be as old as 500 years old.