

John Ray, born in 1627 near Braintree, was an English naturalist widely regarded as one of the earliest of the English parson-naturalists. Ray lived and worked during the earliest days of the Age of Enlightenment. This period was known for great changes in science, literature, and religion. He published important works on botany, zoology, and natural theology. His classification of plants in his Historia Plantarum, was an important step towards modern taxonomy. He classified plants according to similarities and differences that emerged from observation.

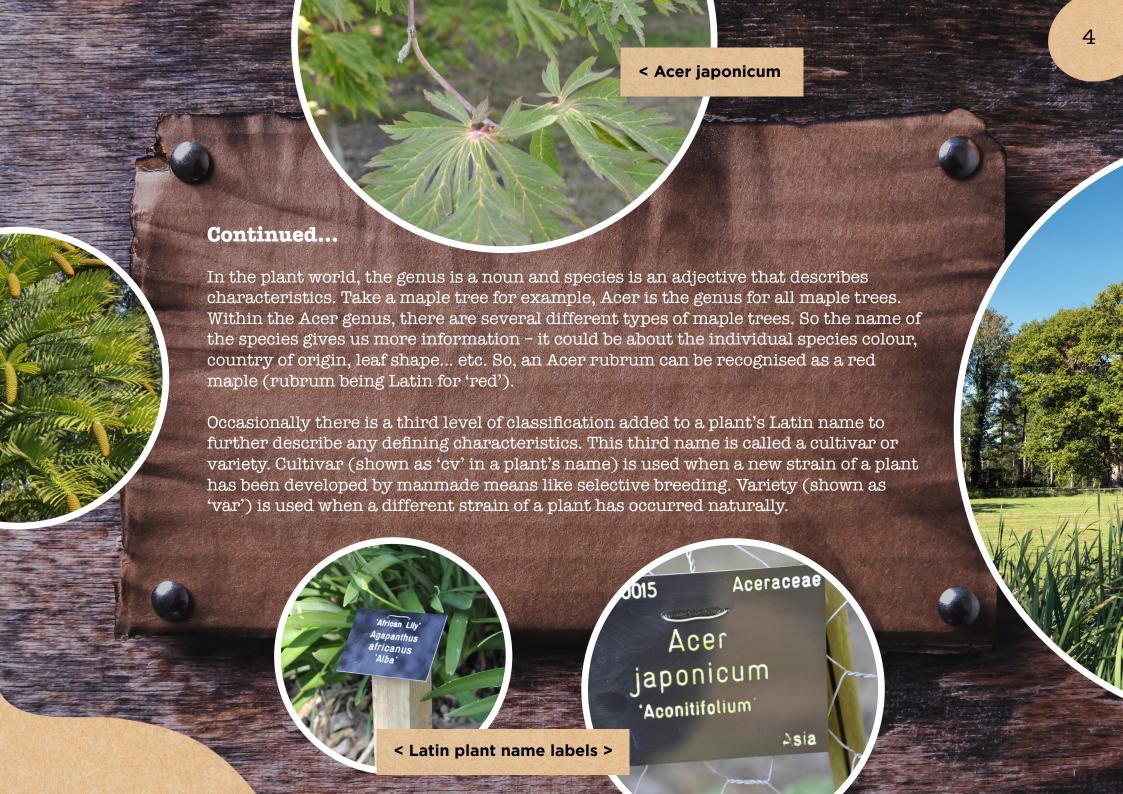
JOHN
RAY
1627-1705
'The father of natural history'
Born in the adjacent cottage

Definition of species

Ray was the first person to produce a biological definition of species, in his 1686 History of Plants:

"... no surer criterion for determining species has occurred to me than the distinguishing features that perpetuate themselves in propagation from seed. Thus, no matter what variations occur in the individuals or the species, if they spring from the seed of one and the same plant, they are accidental variations and not such as to distinguish a species... Animals likewise that differ specifically preserve their distinct species permanently; one species never springs from the seed of another nor vice versa"





Activity 1 Different levels of classification

Here are three examples of different plants at Marks Hall Estate. In each instance can you identify the plant's genus, species and cultivar or variety (where there is one) and then have a go at translating each plant name from Latin to its common name? We've filled out an example to get you going.



Plant name:	Genus:	Species:	Cultivar or Variety	Latin name meaning:	Manmade or natural?:
Phyllostachys nigra var. henonis	Phyllostachys	nigra	henonis	Black bamboo	Natural
Agapanthus africanus cv. 'Alba'					
Acer Japonica cv. Aconitifolum					
Lindera tribola					

Tips and resources:

Visit the BBC Gardeners World website for more information on plant classification and the meaning of some frequently used Latin terms, or the Gardening Know How website which also includes a useful glossary.

