

## Re-wilding a Woodland

You need to consider re-wilding a piece of land to woodland for the benefit for wildlife in the environment. The woodland is 50 hectares. (1 hectare = 10,000sq.m.)

**Task:** How many m<sup>2</sup> do you need to cover?

You need to consider four tree species.

Species	Trees per 100m <sup>2</sup>	Trees in the whole area
Pine	25	
Oak	20	
Beech	15	
Ash	20	



You need to consider other issues. How well will each species survive in the environment you are building?

Species	Survival/1000
Pine	500
Oak	350
Beech	420
Ash	210

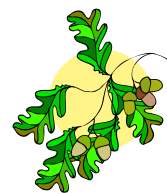
This will be crucial in ensuring the success of the area. If trees don't survive well, then you are likely to find a certain amount of failure in the diversity in the environment.

Another aspect to consider is the value to wildlife of each species. This is crucial to the area, as a bland area of single-species woodland will not provide the diversity you require for a healthy environment.

Species	Eco-rating/1000
Pine	400
Oak	950
Beech	820
Ash	650

**Task:** Draw a bar chart to compare *both the species for survival and the eco-rating.*

**Task:** a) Choose the trees you will plant across the area. How many of each species? Why? *(There is no right or wrong answer to this task, as long as you can explain and justify your decision.)*



b) Plot your forest on graph paper or cartridge paper. Will you plant trees in clumps or mix them at random throughout the area? Why? Will you need to consider pollination? Will you plan 'rides' into the woodland?

<http://northernwoodlands.org/articles/article/why-are-some-trees-pollinated-by-wind-and-some-by-insects>  
<http://treesforlife.org.uk/forest/forest-ecology/pollination/> <http://homeguides.sfgate.com/pine-trees-rely-wind-pollination-74260.html>  
<https://www.woodlandtrust.org.uk/visiting-woods/trees-woods-and-wildlife/british-trees/native-trees/common-beech/>  
<https://www.woodlandtrust.org.uk/visiting-woods/trees-woods-and-wildlife/british-trees/native-trees/ash/>  
<http://www.internationaloaksociety.org/content/mating-single-oaks>

c) Once you have planned your woodland, write a report into what you have decided and why.

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