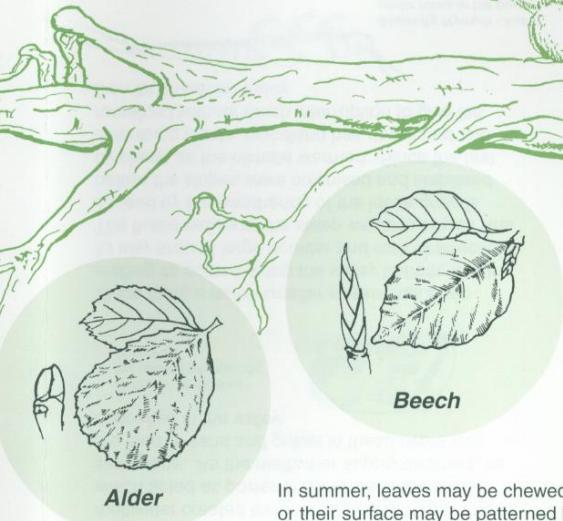


Den of Alyth

Trees are giant stores of sunlight energy. Green plants are the only things on this planet able to use the sun's energy directly for their growth.



Ash



Alder



Beech



Oak

In summer, leaves may be chewed on the tree by caterpillars, or their surface may be patterned by the burrowing of minute grubs. These larvae and the adult insects are food for birds and small animals. Every woodland provides a rich larder for all kinds of life.

The bark protects the timber beneath from attack by disease and water. Disease caused by fungi is common. Dead wood is food for some fungi; it may be easily bored into by grubs and pecked out by woodpeckers looking for their food. Holes in decaying wood provide homes for a variety of birds and small animals, and their stores of food.

How the Woodland Works - From Sunlight to Soil

Millions of unseen bacteria and other 'decomposers' bring about the decay of dead wood, fallen leaves and dead animals and recycle the released nutrients and energy. Worms, beetles and moles then help to mix this 'humus' with the other main soil ingredients - mineral particles (broken down from rock by water, frost and tree roots) - resulting in a rich brown soil to sustain the woodland.

Wildwoods are not tidy places. Growth beneath the leaf canopy depends on light. Sufficient light allows young trees and shrubs to grow causing a 'clutter'. Shade-tolerant plants, like the woodrush, will hide the ground. Where little light reaches, mosses, which tolerate low light levels and fungi needing no light, are still able to grow.



Hazel



By selective felling of mature trees, clearings can be made to encourage the growth of seedlings of native trees which need more light. In this way a return to a more varied and interesting woodland scene can be achieved and the future of the woodland ensured.

It is a poorer place for wildlife, especially insects. Shade and leaf litter prevent other plant growth and lead you through areas dominated by brambles mix is disturbed. On the eastern bank, the natural environment and domineering tree species from the past it was popular to plant attractive species

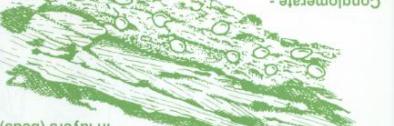
in the past. These are able to compete and dominate in a woodland, the natural shade which is not native to Scotland. Here deep shadows take shelter in the slack water among the stones on the stream bed.

If you are lucky, you may see a dipper. You will probably hear its high pitched call before spotting it as it flies past, close to the water surface. A dark sandstone, and its attractive colour, the local stone was used to build Alyth town as it expanded rapidly during the 1800s. Look around the old buildings in Alyth town to see what you can find.

The lower car park is built by the old quarry. Exposed rock layers which is why today we see the sandstone and jointed crust, titled, the later movements of the earth's crust.

Because of the layer's crust, the sandstone erodes faster than the underlying limestone.

Conglomerate - by pebbles laid down



Old Red Sandstone Cliff



Carried in fast flowing water, larger pebbles are rounded. This tells us that they compacts this loose material into solid rock.

Streams. Pressure over thousands of years has

the lake bottoms, and were later reworked by

the sand and pebbles settled out in thick layers on

rocks being eroded off high mountains to the north

rock minerals. Sandstone because the sand and

the hot, humid conditions of the time rusted, the

basis some 400 million years ago. Red because

laid down on the bottom of a series of shallow lake

because the debris making up this rock was

as Old Red Sandstone.

The sound of flowing water is never far

from you as you walk through the Den. In

through the Alyth Burn creating high cliffs. In the cliffs,

places, the Alyth Burn appears to have cut deeply

were washed down in torrents into the lakes. Here

rocks being eroded off high mountains to the north

the meltwater created torrents loaded with rock debris,

which acted as powerful scourers of the soft

meltwater received some 10,000 years ago: with

the ice finally receding some 10,000 years ago: with

moving south from the main Climbing ice mass.

The force responsible was that of the valley glaciers

moving south from the main Climbing ice mass.

The steep cliffs and boulders left of Alyth

forces responsible for the more powerful

burn are evidence of the great power of

the Den's shaping

than exists today.

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