

rated hills of very inferior effect in the scenery. The lakes of the Cumbrian region are often so deep as to preclude wholly the notion of their having been eroded by water. The valleys are, according to Sedgwick, usually accompanied by great dislocations, radiating from the central elevations of the rocks.

The slaty regions of North Wales are superior in the breadth and grandeur of their effects, though not in picturesque beauty, to the districts of the English lakes. Their effective height is greater, from the entrance of many arms of the sea into the midst of the mountains: there is, besides, something deeper and richer in all the colouring, a greater expanse of surface, largeness of feature, and freedom of outline, which reminds us of the best parts of the Grampians; while the valleys, sometimes richly wooded and watered (Festiniog, Dolgelly), and sometimes dreary and solitary (Llanberis, Beddgelert), furnish, even without their wild lakes and rough cascades, every possible variety of pictorial accompaniment.

If we consider how all these circumstances depend upon the general conditions of a forcible elevation of rocks of different qualities into an atmosphere competent to produce upon them unequal chemical effects, and on their disintegrated particles to nourish correlative vital phenomena, we shall see how trifling is the enjoyment of beautiful nature which they experience who are satisfied to gaze on effects with the painter, and seek not their appointed causes with the geologist.

*Igneous Rocks* are associated with the argillaceous slates in every district where they appear in the British islands. Granites touch the slates (called "killas") in Cornwall, in Cumberland, in Cavan and Arran; serpentine occurs at the Lizard, in Cornwall; porphyry and greenstone are abundant in the Lammermuir, the Cumbrian mountains, and Snowdonia, both in dykes and partially stratified masses. Mineral veins are found no where so abundantly as in the Lead Hills, and in Cornwall, nor there any where so plentifully as near the