

OUTCROP is illustrated. The steps formed by the thickness of the card *stratum* at the same time illustrate another phenomenon and its verbal sign, these being miniature ESCARPMENTS.

"The term DIP, and that which it expresses, may be illustrated by tilting the map; as a whole, when all the *strata* will *dip* towards the lower end; or by placing a small object beneath some of the *strata* and pressing them down on either side of it, when those *strata* will *dip* from it in each direction. In the latter case the upraised portion will represent what is known in nature as an ANTICLINAL ridge. If a second object be placed at a short distance from the first and the *strata* be depressed between them a SYNCLINAL trough will be formed.

"Whilst illustrating DIP, another term usually very perplexing to learners, may, by means of the Strata Map, be most readily explained, viz. : STRIKE.

"By removing portions of overlying *strata* geological INLIERS are clearly exhibited; and OUTLIERS are shown by means of a portion of the *stratum* to which they belong cut to the shape of the *outlier* to be represented and attached to the underlying *stratum* in the proper position.

"The *strata* of the map being all *superimposed*, horizontally, one upon the other, that condition of things known to the geologist as CONFORMABLE stratification is exhibited, and UNCONFORMABILITY is easily explained.

"Where IGNEOUS rocks occur within the area represented, the space so occupied is marked by a distinctive colour indicating such intrusion. But as it is usually impossible to say whether underlying *stratified* rocks are pierced thereby, their presence is not indicated on underlying *strata*. In any case where, by the operations of the miner or otherwise, such rocks are found to exist, the fact may be indicated on any *stratum* affected.

"The Strata Map may be made of any size, and may consist of a small number of layers representing groups of formations or of a large number representing the several formations or their subdivisions.

"Upon the various *strata*, FOSSILS, characteristic of the formation represented, may be figured and named.