

## EXPLANATION OF PLATES.

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### PLATE I. Frontispiece.

Map of Yorkshire, showing the elevation of the ground, above the sea, by shades of different intensity.

### PLATE II. P. 6.

Plans and Sections to illustrate the form of the surface. Fig. 1. Section from west to east, showing the elevations and depressions:  $x'$  is the place of the Penine Fault.

Fig. 2, p. 7. Diagram to show the effect of elevation of the strata on an axis marked by  $x$ , and the arrow;  $w$ . the level of the sea, towards which the strata are rising, so as to come within the action of the waves, and above which they finally stand. G. Gritstone, S. Shale, and L. Limestone.

Fig. 3, p. 7. Plan showing the effect of the sea in wasting the strata as they rose, in the direction A. A, so as to leave islands  $b. w. i$ .

Fig. 4, p. 8. Plan showing the further effect of the elevation of the strata and the wasting action of the sea, by which the valleys began to be marked out, between the elevated parts of the land.

### PLATE III. Pp. 9-11.

Outlines to show the forms which particular kinds of rock assume, in consequence of the waste which they have experienced.

Fig. 1. Contours in Craven:  $g$ . the rugged hills of millstone grit,  $s$ . the rounded hills of shale.

Fig. 2. Ingleborough from the north, to show the prominent edges of  $m$ . millstone grit,  $l$ . limestone,  $s$ . sandstone, near the summit.

Fig. 3. Contours of the oolitic hills  $n$ , and the chalk-hills  $w$ .