

from east to west through the Forest Ridge. Thus, the railroad has to pass through two ranges of chalk hills by tunnels—those of Merstham and Clayton; two principal ridges of Wealden strata—at Balcombe and Hayward's Heath; and the Shanklin sand at Red Hill, in Surrey, and near Hurstperpoint, in Sussex. There is no railroad in the kingdom that, in the distance of fifty miles, exhibits geological phenomena of greater variety or interest.

If the student will refer to *Wond.* p. 342, the stratification above pointed out, will be better comprehended. The sections visible on the turnpike road from London to Brighton are described, *Wond.* p. 343.

The neighbourhood of Balcombe station will afford some sections of easy access; and from Hayward's Heath station, Cuckfield is about two miles distant. The quarries on the hill above that town were formerly very productive, and the usual Wealden fossils may still be obtained; namely, casts of several species of fresh-water shells (*Wond.* p. 377.); scales and teeth of fishes (*Lepidotus*, p. 638.); bones of reptiles; and vegetable remains.