

In the neighbourhood of Bath, and throughout an extensive tract in the adjacent counties of Gloucester, Somerset, and Wilts, this regularity is the most observable; and we shall therefore proceed to draw our descriptions principally from this district, premising that our materials will be in great measure derived from the various publications of Mr. Smith, to the great accuracy of whose observations, as relating to the district in question, we can from personal examination bear the highest testimony, although we cannot agree with him in believing that these minute divisions can be traced or indeed exist throughout the whole course of the great system of oolites of which we are now treating, as regular beds, decidedly distinct from each other.

A general idea of the stratification of this district will be afforded from the section in the note,* the result of a careful examination of it under the guidance of the Revd. Mr. Richardson: we shall proceed, therefore, more particularly to state the chemical and external characters of the upper oolitic beds in the order here exhibited.

The *Cornbrash*, (No. 2), (No. 1 being the lowest beds of the clay described in the preceding article), is a loose rubbly limestone, of a grey or bluish colour, especially near the superincumbent clay, but on the exterior brown and earthy; it rises in flattish masses rarely more than six inches thick. The upper beds of the third oolitic system in Oxfordshire, which are with probability referred to this rock, are often of a pasty or chalky consistency and colour. In Wiltshire it is known by the name of the *cornbrash* or *corn-grit*. The latter appel-

* *Section in the neighbourhood of Tellisford and Farley Castle, ten miles south of Bath.*

1. Lower part of the Oxford or clunch clay full of selenite.
2. Cornbrashfrom 8 to 16 feet.
3. Clay 8 to 14
4. Calcareo-siliceous sand and gritstone usually about 10
but near Norton swelling to 40
5. Forest marble 18
6. Sand beneath the forest marble 2
but sometimes swells like No. 4 to a greater thickness.
7. Clayfrom 40 to 60
sometimes however thinning off to 20
8. Great oolite..... 130

Mr. Smith's Section of the strata through Hampshire and Wilts to Bath may also be advantageously consulted with reference to this district. The only inaccuracy which deserves mention is, that the cap of the lower beds of the great oolite on the hill above Mitford Castle is not distinctly represented.