

refers to three different species, if not genera. The true affinities of the fossils were determined by Baron Cuvier.* Mr. Broderip's specimen (Tab. 86) consists of the right half of a lower jaw, the inside of which is exposed; it has seven grinders; one canine, and three incisor teeth; there is a vacancy for a fourth incisor, and thus the number would correspond with the dentition of the recent didelphis. This fossil is in an admirable state of preservation, and the piece of slate in which it is imbedded has numerous casts of the *trigonia impressa*, which occurs in such profusion in the Stonesfield slate.

11. WEALDEN AND STONESFIELD FOSSILS.—A comparative view of the organic remains of the wealden and of the Stonesfield slate, exhibits a striking analogy in the zoological characters of these deposits.

Wealden Grit of Tilgate Forest.

Stonesfield Slate.

Wood, in the state of a reddish brown friable mass.

Wood.

Equiseta.

Fuci.

Sphenopteris, Lonchopteris, and other ferns.

Sphenopteris, Tæniopteris, and other ferns.

* On the Megalosaurus of Stonesfield: Geological Transactions, vol. i. page 393. Second Series.

M. Blainville has lately drawn attention to the subject, by asserting that these jaws belong to unknown reptiles; but there does not appear to be any reason to doubt the correctness of the deduction of M. Cuvier.