

out near the foot of Wren's Nest Hill; B, the arrangement of the limestone strata at Dudley Castle Hill; D, a hill capped with basalt. In this section the proportion of distance has been disregarded, for the same reason as in Plate II. fig. 4.

#### PLATE IV.

- Fig. 1. Arrangement of the strata from Sheffield, in Yorkshire, to Castleton, in Derbyshire. (See page 50.)  
 Fig. 2. Coal strata, arranged in basin-shaped concavities, and intersected by a fault. (See page 105.)  
 Fig. 3. Coal strata thrown up by a broad dyke. (See Chap. VIII.)  
 Fig. 4. Metallic veins. *a a*, a vein divided by the vein *b b*; *c c*, a pipe vein.  
 Fig. 5. Metallic veins in limestone, cut through by toadstone.

#### PLATE V.

The gigantic Trilobite, and two smaller species.

#### PLATE VI.

Map of the geology of England and Wales, and a section of the Vale of Thames.

#### PLATE VII.

A section of England through Durham and Cumberland; a group of columnar trap rocks, Cader Idris; sections of ground plans of metallic veins, &c.

#### PLATE VIII.

Living illustrations of fossil conchology:—

- Fig. 1. Cuttle-fish, or Sepia.  
 2. Beak of a Sepia.  
 3. The Nautilus Pompilius and its shell.  
 4. A Scaphite.  
 5. A Hamite.  
 6. Cornu Ammonis, or ammonite.  
 7. Indented partitions of an ammonite.  
 8. Baculite.  
 9. Belemnite.  
 10. Turrilite.  
 11. Spirula.  
 12. Orthoceratite.  
 13. Nummulite.  
 14. Hippurite.  
 15. The animal and shell of a Buccinum.  
 16. Animal and shell of a Bucardium.  
 17. A living Pentacrinus.  
 18. The mouth and excretory organ of the Pentacrinus.

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