Catalogue of the Cretaceous fossils in the Brighton Museum, presented by Henry Willett, Esq.

Contributors

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CATALOGUE

OF THE

CRETACEOUS FOSSILS

IN THE

BRIGHTON MUSEUM.

PRASENTED-BY

PRESENTED BY

HENRY WILLETT, ESQ.

BRIGHTON:

WILLIAM J. SMITH, 43, NORTH STREET.

1871.

CATALOGUE

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PREFACE.

This Collection of Sussex Chalk Fossils is the result of the loving labour of the leisure hours of ten years.

My love of Natural History was directed into this channel through the casual acquaintance (when quite a boy) of the late Gideon Mantell, Esq., F.G.S., LL.D. When, in 1841, I came to live at Brighton, I found that his valuable and interesting Collection had been removed to the British Museum.

While the great Natural Storehouse of extinct Animal Forms still remained, the Fossils daily discovered in the large Chalk Quarries round Lewes were destroyed as worthless, because there was no one to care for them.

Regretting that so many objects of beauty and interest should not be redeemed from destruction, I devoted my pocket-money and spare time to the amusement of (1) Inducing the workmen to observe and lay aside for me everything the chalk contained that was not a flint; and (2) To collecting and developing the treasures thus obtained.

I use the word "treasures" advisedly; for had I been so inclined, I could have disposed of the Collection for a considerably larger sum of money than it had cost me; but I preferred to present it to the Museum of this Town, in the hope that it would not only be a Local Record of Fossil Remains of the neighbourhood, but that its Exhibition might induce other Young Men to direct some of their spare hours in the intervals of active business to its study, and thereby to share the same pleasures, and find the same advantages in the pursuit, that I have done.

These advantages are neither small nor few; for while I admit, on a casual glance, there is nothing very attractive in a chalk fossil, yet the delight of discovering some new relic of Creative Power hitherto unknown to Science is as great to the discoverer as that of a new planet or comet is to the astronomer; while it surpasses the joy of a gold-digger at finding a "nugget," inasmuch as he has no fear that any one will steal it.

The pleasure of a Collector in meeting with a fossil fish in a chalk stone, is not surpassed by that of an angler who has hooked a living one; and the enjoyment of developing the form of a beautiful fossil,—such as a Pentacrinite or Echinus,—from its entombing chalk matrix, is similar to what an artist or sculptor experiences as he sees his

conception grow daily into visible reality; while, to crown all, there are no sad regrets at the amusement having caused unnecessary suffering to the weaker objects in Creation, none of which have cause to lament that their brief day of life has been prematurely shortened.

The pursuit developed in me a habit of early rising; it blessed me with the health which usually follows vigorous exercise in the open air; and it made me acquainted with men of culture and refinement, who, in many instances, have grown to be firm and fast friends.

One word of caution I must give to young Collectors. There is a danger lest, in the greed of collecting, there should grow up a jealousy of those who have been more successful: and a watch must be set against the folly of fancying that, because you have fortunately discovered a new fossil, you may assume airs of personal importance as if you were its creator. But these are weaknesses which belong to human nature, and are not peculiar to the study of this or any other science.

To be a happy and successful Student, one must be humble and reverent; and if the inspection of this Collection should help one young man to find his pleasure, and to spend his spare time in this direction, rather than to waste it in billiards or idleness, it will not have been formed nor presented in vain.

I should be deficient in due recognition of kind and

patient assistance, if I omitted to thank (for the aid rendered in the nomenclature and arrangement of this Catalogue) my friend, William Boyd Dawkins, Esq., F.G.S., the Professor of Owen's College, Manchester, whose position is a proof of what may be done by any one who can combine high personal character with persevering and intelligent effort. Without his aid the Catalogue could not have attained its present form and accuracy.

HENRY WILLETT.

Arnold House,

Brighton,

January, 1871.

NOTICE.

The Fossils are arranged according to the System laid down in Professor Owen's "Palæontology."

The following Abridgements have been used throughout:—

u. c., upper chalk.

m. c., middle chalk.

l. c., lower chalk.

c. m., chalk marl.

Underneath the Table Cases are specimens of the existing Species, to illustrate the affinities of their fossil analogues.

In Case 12 there is a series of Minerals from the Chalk, and a small collection of the objects around which Flint is generally accumulated.

CATALOGUE

OF

CRETACEOUS FOSSILS.

Case 1.

TORTOISES AND TURTLES.

Province-Vertebrata.

Class-Reptilia.

Order-Chelonia.

Character—Trunk ribs broad, flat, united by sutures, and forming with the vertebræ and sternum a stout bony case, into which the head, tail, and limbs can usually be withdrawn; no teeth; external nostril single (Owen).

Range-From the Portlandian epoch to the present day.

1 Chelone

c. m., Clayton

Sp. foss. marine turtle; fragment of scapulo-clavicle, carapace, and rib.

2 Chelone

c. m., Clayton

Sp. foss. marine turtle; scapulo-clavicle.

3 Chelone

1. c., Maidstone Taylor Coll.

Sp. foss. marine turtle; fragment of carapace.

4 Chelone

c. m., Clayton

Sp. foss. marine turtle; median plates of carapace.

5 Chelone

c. m., Clayton

Sp. foss. marine turtle; anterior portion of plastron.

6 Chelone

c. m., Clayton

Sp. foss. marine turtle; vertebra.

7 Chelone

Sp. foss. marine turtle; ilium, hip-bone.

8 Chelone

Sp. foss. marine turtle; lower mandible.

LIZARDS.

Order-Lacertilia.

Character—Vertebræ, with centra hollow in front, and with a single transverse process on each side: ribs with one head only; sacral vertebræ not more than two; external nostrils two (Owen.)

Range-From the Triassic Age to the present day.

- 9 Coniosaurus crassidens (Owen) c. m., Clayton Sp. foss. thick-toothed lizard; right ramus of lower jaw, with vertebræ; type specimen.
- 10 Coniosaurus crassidens (Owen) m. c., Falmer
 Sp. foss. thick-toothed lizard; vertebræ.
- 11 Coniosaurus crassidens (Owen) c. m., Clayton
 Sp. foss. thick-toothed lizard; twelve consecutive dorsal vertebræ;
 type of order.
- 12 Mosasaurus gracilis (Owen) u. c., Offham Sp. foss. slender-tooth marine lizard; part of lower jaw, with teeth; type of order.
- 13 Mosasaurus gracilis (Owen) u. c., Offham

 Sp. foss. slender-toothed marine lizard; body of lumbar vertebra; type of order.
- 14 Mosasaurus gracilis (Owen) u. c., Offham Sp. foss. slender-toothed marine lizard; fragments of vertebræ, one of which, a lumbar vertebra, is a type of order.
- New sp. foss. marine reptile; fragment of dorsal vertebra; closely allied in its form to the preceding.

1. c., Clayton

Sp. foss. marine reptile; coracoid bone.

17 Leidon anceps (Owen)

u. c., Brighton

Sp. foss. smooth-toothed giant lizard; type tooth of order.

18 Leidon anseps (Owen)

u. c., Norwich

Sp. foss. smooth-toothed giant lizard; teeth.

WINGED LIZARDS.

Order-Pterosauria.

Character—The two forelegs adapted for flight, by the elongation of the antibrachium and fifth digit; vertebræ with centra hollowed in front; cervicals not more than eight; sacrum small; head large; jaws long, and armed with teeth; bones hollow, and traversed by air as in birds (Owen).

Range-From Lias to Chalk.

19 Pterodactylus Cuvieri (?)

c. m., Newtimber

Sp. foss. gigantic flying reptile; portion of shaft of radius.

20 Pterodactylus Cuvieri (?)

c. m., Newtimber

Sp. foss. gigantic flying reptile; portion of wing-bone, showing the pneumatic foramen for the admission of hot-air into the cavity of the bone.

21 Pterodactylus Cuvieri (?)

c. m., Newtimber

Sp. foss. gigantic flying reptile; fragment of bone, shewing the dense texture and thinness of the bone.

FINNED LIZARDS.

Order-Sauropterygia (Owen).

Character—Teeth simple, in distinct sockets of premaxillary and premandibular bones; maxillaries larger than premaxillaries; limbs adapted for swimming, and possessed of five digits only.

Range-From Trias to Chalk.

22 Polyptychodon interruptus (Owen) m. c., Lewes
Sp. foss. great marine reptile, with folds on its teeth.

- 23 Polyptychodon interruptus (Owen)

 Sp. foss. great marine reptile, with folds on its teeth; fragments of three teeth.
- 24 Polyptychodon interruptus (Owen) m. c., Falmer
 Sp. foss. great marine reptile, with folds on its teeth; tooth of enormous size.
- 25 Polyptychodon interruptus (Owen) l. c., Glynde Sp. foss. tooth different in many respects from the preceding.
- 26 Polyptychodon interruptus (Owen) l. c., Glynde Sp. foss. tooth.
- 27 Polyptychodon continuus (Owen) l. c., Houghton Pit Sp. foss. great marine reptile, with folds on its teeth; a tooth.
- 28 Plesiosaurus 1. c., Southeram, Lewes Sp. foss. long-necked marine lizard; vertebra.
- Plesiosaurus
 Sp. foss. long-necked marine lizard; vertebra.
- 30 Plesiosaurus figured by Prof. (Owen) m. c., Sedlescomb Sp. foss. long-necked marine lizard; tooth.
- 31 Plesiosaurus (?) m. c., Malling Sp. foss. long-necked marine lizard; fragment of bone.
- . 32 Plesiosaurus (?)

 Sp. foss. long-necked marine lizard; fragment of bone.

FISH-FINNED REPTILES.

Order-Icthyopterygia.

Character—Two nostrils in front of the orbits, which are very large, and contain sclerotic plates; limbs natatory, with more than five digits; teeth implanted in a common alveolar groove.

Range-From Trias to Chalk.

33 Icthyosaurus campylodon (Owen) l. c., Dover, Kent Short-necked marine lizard; teeth.

34 Icthyosaurus campylodon (Owen)

Short-necked marine lizard; teeth.

35 Icthyosaurus campylodon (Owen)

Short-necked marine lizard; vertebra.

36 Icthyosaurus campylodon (Owen)

Short-necked marine lizard; vertebræ and ribs.

Case 2a.

HARD-FINNED FISHES.

Order-Acanthopteri.

Character—Skeleton, ossified; fins, with one or more of the first rays without joints, or inflexible; ventral fins, generally beneath or in advance of the pectorals; swim-bladder without air-duct.

Range-

37 Pomognathus eupterygius (Ag) l. c., Southeram, Lewes
Two fishes, preserved head to head, one of which has lost the latter
half of its body; type of order.

38 Beryx radians (Ag)

A perfect specimen; the inflexible anterior spines of the dorsal fin and the posterior jointed ones are beautifully preserved, and are eminently typical of the order.

39 Beryx radians (Ag) c. m., Southeram
Anterior half of body.

40 Beryx radians (Ag)
Portion of the body, and cast.

41 Beryx radians (Ag) c. l., Glynde Body.

42 Beryx radians (Ag) m. c., Malling
Head and spinal column.

43 Beryx microcephalus c. m., Southeram
The fish, docked of its tail.

44	Beryx microcephalus	c. m., Glynde
	Anterior portion of body.	
45	Beryx superbus (Ag)	
	Fragments of head and body.	
46	Beryx superbus	c. m., Southeram
	Spinal column and scales.	
47	Beryx ornatus (Ag)	m. c., Malling
	Body of fish, docked of its tail.	
48	Beryx ornatus (Ag)	m. c., Malling
	Head, and portion of body.	
49	Beryx ornatus (Ag)	1. c., Southeram
	Head.	
50	Beryx ornatus (Ag)	m. c., Malling
	Portion of head, and spinal column.	
51	Beryx ornatus (Ag)	m. c., Malling
	Anterior half of body.	
52	Beryx ornatus (Ag)	1. c., Southeram
	Head, and portion of spinal column.	
53	Beryx ornatus (Ag)	
	Body, much contorted.	
	Case 2b.	
	Gubo ab.	
54	Beryx ornatus (Ag)	m. c., Malling
	Portion of body.	
55	Beryx superbus	c. m., Glynde
	Head, and anterior portion of body.	
56	Beryx ornatus (Ag) (?)	u. c., Brighton
	Body and head.	
57	Beryx	u. c., Brighton
	Portion of body.	

58 Berycopsis elegans (Ag)	c. m., Clayton
Anterior portion of body.	a Clark
59 Osmerus (Ag)	1. c., Glynde
Portion of body.	
60 Osmerus (Ag)	l. c., Glynde
Compressed head and body.	
61 Osmiroides crassus (Dix) m. c., Po	tter Coll., Malling
Head, in a most wonderful state of preservation	; type of order.
62 Stenostoma pulchellum	u. c., Brighton
Body.	-1 (1.94 2.97)
63 Stenostoma pulchellum (?)	u. c., Brighton
64 Homonotus dorsalis (Ag)	m. c., Malling
Head, and anterior portion of the body; type of	
65 Enchodus halocyon (Ag)	u. c., Brighton
Head, and portion of spinal column.	
66 Enchodus halocyon (Ag) (?)	
Tooth.	
67 Enchodus halocyon (Ag)	u. c., Brighton
Tooth.	
68 Enchodus halocyon (Ag)	1. c., Glynde
Tooth.	aled posique de
69 Enchodus halocyon (Ag) (?)	
Tooth.	
70 Enchodus halocyon (Ag)	m. c.; Malling
Fragments of skull.	aladgeoranad idi
71	c., Southeram
Tooth; sp.	ankar puotanik 14
72	c. m., Glynde
Lower jaw; sp.	malground 26
73	c. m., Clayton
Lower jaw; sp.	

74		1. c., Glynde
	Lower jaw, and fragments of upper jaw a	nd skull; specimen.
75		1. c., Glynde
	Lower jaws; sp.	and the second of the
76	(Ag)	l. c., Glynde
	Lower jaws; sp.	Included and production
77	Makic District Report of Control	l. c., Clayton
	Head; sp.	and the same of th
78		c. m., Clayton
	Jaw; sp.	
79	Tomognathus mordax (Ag)	l. c., Clayton
	Head.	
80	Tomognathus mordax (Ag)	c. m., Southeram
	Head.	
81	Tomognathus leiodon (Ag)	c. m., Clayton.
	Head.	invested substituted to
82	Saurocephalus	c. m., Glynde
	Rostrum.	Investod interfered by
83	Saurocephalus striatus (Ag)	c. m., Glynde
2.656	Left lower jaw.	iono led miss boot dis
84	Saurocephalus lanciformis (Ag)	c. m., Newtimber
	Tooth.	investigation of the
85	Saurocephalus striatus (Ag)	c. m., Newtimber
0.0	Tooth.	
86	Saurocephalus lanciformis (Ag)	c. m., Glynde
0.7	Tooth.	CI.
87	Saurocephalus lanciformis (Ag)	c. m., Clayton
0.0	Tooth.	CI.
88	Saurocephalus striatus (Ag)	c. m., Clayton
	Lower jaw; type of order.	

Case 2c.

89	Saurocephalus lanciformis (Ag)	c. m., Newtimber
	Tooth.	
90	Saurocephalus lanciformis (Ag)	c. m., Malling
	Left vomer.	is a rough with the
91	Belonostomus cinctus (Ag)	m. c., Malling
	Lower jaw; type of order.	Animalia de la constitución de l
92	Belonostomus cinctus (Ag)	u. c., Brighton
	- Left ramus.	callula in consequent
93	Belonostomus cinctus (Ag)	1. c., Southeram
	Left lower jaw; type of order.	
94	with the control of	m. c., Malling
	Left ramus, and bones of the head; sp.	Toning the supplied that the
95	Hypsodon Lewisiensis (Ag)	c. m., Glynde
	Lower jaws.	thing had a series
96	Hypsodon Lewisiensis (Ag)	m. c., Offham
	Vertebræ.	
97	Hypsodon Lewisiensis (Ag)	1. c., Burham
	Left dentary.	
98	Cœlorhynchus cretacius (Ag)	c. m., Clayton
	Portion of rostrum.	
99	Cœlorhynchus cretaceus (Ag)	c. m., Clayton
	Portion of skull and rostrum.	
10	0	m. c., Houghton
	Crushed head of fish; specimen.	
10	1 Tetrapterus minor (Ag)	c. m., Amberley
	Two fragments of rostrum.	
10	2 (Ag)	c. m., Amberley
	Caudal vertebræ.	
10	3 Enchodus halocyon (Ag)	c. m., Clayton
	Fragments of skull and spinal column	(species same as No. 70,
	Case 2b.)	

104 Microdon occipitalis (Ag) m. c., Malling Skull, and anterior half of body; type of order. 105 c. m., Amberley Portion of spinal column; specimen. 106 Beryx (?) u. c., Brighton Anterior spines of dorsal fin. 107 u. c., Brighton Intestine containing coprolite of carnivorous fish; specimen. 108 Fragment of skull; sp. 109 Beryx (?) c. m., Clayton Fragment of spinal column. c. m., Amberley 110 Fragment of spinal column; sp. 110ac. m., Amberley Fragment of spinal column; sp. 111 Mr. Taylor's Coll. Left lower jaw; sp. 112 1. c., Southeram Fossil ova; sp.

FISHES CLAD IN ARMOUR.

Order-Ganoidei.

Character—Skeleton sometimes osseous, sometimes cartilaginous; body covered with enamelled bones; fins with a strong spine for the first ray.

Range-From Devonian to present day.

113 Dercetis elongatus (Ag)

Portion of head, and greater part of body.

114 Dercetis elongatus (Ag)

l. c., Southeram

Portion of head, and greater part of body.

115 Dercetis elongatus (Ag) Head.	m. c., Malling
116 Dercetis elongatus (Ag) Head.	c. m., Glynde
117 Dercetis elongatus (Ag) Portion of body.	c. m., Glynde
118 Lophiostomus Dixoni (Ag) Scales, and fragments of jaw.	m. c., Malling
119 Lepidotus punctatus (Ag) Scale.	Kent
120 Prionolepis angustus (Ag)	c. m., Clayton
121 Scale.	c. m. Clayton
122 Gyrodus cretaceous (Ag) Portion of palate, with teeth; type of order.	m. c., Malling
123 Gyrodus (Ag) Remarkably fine maxillary, mandible, and vom	ch. m., Glynde er, with teeth.
124 Gyrodus (Ag) Vomer.	l. c., Southeram
125 Calamopleurus Anglicus (Dixon) Scale.	c. m., Amberley
126 Calamopleurus Anglicus (Dixon) Scale.	1. c., Southeram
127 Calamopleurus Anglicus (Dixon) Scale.	1. c., Southeram
128	
Beautifully sculptured scale; sp.	

Case 2d.

129 Pycnodus parallelus (Ag) 1. c., Southeram Fish, with teeth arranged in parallel lines; portion of palate, bearing teeth. 130 Pycnodus c. m., Glynde Portion of palate, with teeth. 131 Microdon sp. u. c., Brighton Palate, with teeth; type of order. m. c., Malling 132 Microdon sp. Vomer, with teeth. 133 Macropoma Mantellii (Ag) m. c., Malling Fish, with large gill covers. This remarkably fine specimen is perfect, with the exception of the dorsal fin and the spines of the tail. Underneath it, in the same block, is the skeleton of another fish, lying obliquely. See 134 Macropoma Mantellii (Ag) Malling Head, and portion of the body; latter half of body. 135 Macropoma Mantellii (Ag) Malling View of internal portion of the posterior half of body. In the anterior part of this specimen the swim-bladder is preserved, and is shown by the chocolate-coloured scutiform mass underlying the cast of the spinal column. 1. c., Southeram 136 Macropoma Mantellii (Ag) Head. l. c., 137 Macropoma Mantellii (?) (Ag) Coprolites. 138 Macropoma Mantellii (?) (Ag) Coprolites. 139 Macropoma Mantellii (?) (Ag) Coprolites.

Case 2e.

BONY-JAWED FISHES.—CHIMÆROIDS.

Order-Holocephali.

Character—Bony jaws, traversed and enclosed by dental plates; skeleton cartilaginous; body covered with hard enamelled granules; fins generally with a strong spine for the first ray; ventrals abdominal; a single external gill aperture (Owen). These fish are represented by the chimera, the king of herrings, and by two species living now in the Australian and Chinese seas.

Range-From Oolitic Period to present day.

140	Ischyodus Agassizi	c. m., Amberley
图10	Suspensory spine.	
141		c. m., Amberley
	Dorsal spine; sp.	
142	Marie Consider the	c. m., Glynde
	Dorsal spine; sp.	
143	Edaphodon Mantellii (Buckland)	c. m., Glynde
	Right lower mandible.	old Milmani Po Dat
144	Edaphodon Mantellii (Buckland)	c. m., Clayton
	Lower mandible.	100
145	Edaphodon Mantellii (Buckland)	1. c., Southeram
300	Premaxillaries.	Manager appear
146	Edaphodon Mantellii (Buckland)	c. m., Glynde
	Fragment of upper jaw.	amegas administration
147	Edaphodon Mantellii (Buckland)	c. m., Clayton
The same of the sa	Right lower mandible.	
148	Edaphodon	c. m., Southeram
	Perfect mandible.	

SHARKS AND RAYS.

Order-Plagiostomi.

Characters-Skeleton cartilaginous, or partially ossified; body covered with small enamelled granules; gill apertures, five or more; no swim bladder; intestine with a spiral valve.

Range—From Upper Silurian to present day.			
149	Plethodus expansus (Dixon)	m. c., Malling	
	Fragment of osseous representative of tooth; ty	pe of order.	
150	Plethodus expansus (Dixon)	c. m., Clayton	
	Fragment of osseous representative of tooth.		
151	Plethodus expansus (Dixon)	c. m., Newtimber	
	Fragment of osseous representation of tooth.		
152	Plethodus expansus (Dixon)	c. m., Glynde	
	Perfect specimen of osseous representation of to	oth.	
153	Plethodus oblongus (Dixon)	c. m., Clayton	
	Tooth, or rather osseous representative; type of	of order.	
154	Plethodus minor (Dixon)	c. m., Clayton	
	Osseous representative of tooth.		
155	Chimeroid	1. c., Southeram	
	Skull; sp.	haronses sell	
156	Chimeroid	c. m., Clayton	
	Portion of spine; sp.	- Kein Amales 3 19	
157		c. m. Southeram	
	Fossil spawn (?); sp.		
158	Otodus appendiculatus (Ag)	c. m., Glynde	
	Shark, with two accessory cusps in each tooth;		
159	Otodus appendiculatus (Ag)	c. m. Glynde	
200	Vertebræ and teeth.	o. zz. o gwa	
160	Otodus appendiculatus (Ag)	var. loc.	
The state of the s	11 (5)		

161 Otodus appendiculatus (Ag) Tooth imbedded in flint.

Teeth.

162	Otodus superbus	
	Teeth; sp.	
163		c. m., Clayton
	Vertebræ of shark ; sp.	
164		l. c., Amberley
	Shark vertebra; sp.	
	C 06	
	Case 2f.	
165	Oxyrhina crassidens (Dixon)	m. c., Lewes
	Thick-toothed shark; vertebræ and teeth.	
166	Oxyrhina crassidens (Dixon)	m. c., Lewes
	Teeth.	porting horse
167	Lamna raphiodon (Ag)	m. c., Lewes
	Teeth.	Control Marie
168	Lamna acuminata (Ag)	m. c., Lewes
	Tooth.	
169		c. m.,
	Vertebræ series; type of order.	
170	Acrodus (allied to)	Norwick
	Tooth; sp.	
171	35 95.60	
	Tooth; sp.	
172	Mind of the Market of the State	
	Tooth; sp.	
173		
	Tooth; sp.	
174		
	Tooth; sp.	
175	and warmer of the Property and the Country of	
	Tooth; sp.	
176		
	Tooth; sp.	

177 Corax falcatus (Ag)
Teeth.

u. c., Brighton

178 Notidanus microdon (Ag)
Teeth.

c. m., Glynde

179

u. c., Brighton & Clayton

Portion of jaw, covered with shagreen; sp.

180

c. m., Amberley

Vertebræ covered with shagreen; specimen.

181 Cestracion canaliculatus (Ag)
Teeth, and shagreen.

u. c., Brighton

182 Cestracion canaliculatus (Ag)

This valuable specimen correlates the teeth, spine, and vertebræ, which had been assigned to three distinct species, and shows that they really belong to one and the same animal, the greater part of the skeleton underlying the tail of Macropoma Mantellii, No. 133. The teeth and shagreen of the jaws are visible under the tail of the above-mentioned fish, while about the middle of the chain of vertebræ the dorsal spine is preserved in its normal position.

183 Sp.

c. m., Clayton

Head, with shagreen and spinigerous granules and teeth; remarkably fine specimen.

Case 2g.

- 184 Ptychodus decurrens (Ag) (fig. Dixon) l. c., Southeram

 Teeth, in their natural position, cemented together with peroxide
 of iron; type of order.
- 185 Ptychodus decurrens (Ag)
 Teeth.

c. m., var.

186 Ptychodus latissimus (Ag)

m. c., Malling

Fossil shark, allied to that of Port Jackson; palate and teeth; the teeth are remarkable for their beauty, and for the power which the ridges give them of seizing and crushing shells.

187 Ptychodus latissimus (Ag)

u. c., Brighton

Worn out tooth.

188 Ptychodus latissimus (Ag) (?)	
Perfect tooth.	
189 Ptychodus superbus (Ag)	c. m., Clayton
Rays of fin.	list of the state of
190 Ptychodus superbus	m. c., Malling
Rays of fin.	
191 Ptychodus superbus	l. c., Southeram
Rays of fin.	
192 Ptychodus superbus	c. m., Clayton
Rays of fin.	
193 Ptychodus superbus	l. c., Southeram
Rays of fin.	
194 Ptychodus latissimus (Ag)	u. c., Malling
Most magnificent series of teeth, 217 in num	ber.

Case 2h.

195	Ptychodus latissimus (Ag)	
	Cast of tooth found in Suffolk; the or Collection.	riginal is in Mr. Wetherall's
196	Ptychodus latissimus (?)	u. c., Kent
	Tooth.	
196	a Ptychodus (Ag)	u. c., Brighton
	Teeth.	
197	Ptychodus mammillaris (Ag)	m. c., Malling
	Group of teeth.	
198	Ptychodus mammillaris (Ag)	Warminster
	Group of teeth.	
199	Ptychodus mammillaris (?)	c. m., Glynde
	all-his masses as the miles exemples	c, m., Sedlescombe
200	Ptychodus decurrens.	month exmonor. A.

201	Ptychodus	m. c., Malling
	Rays of fin.	ar dimension of
202	Ptychodus	c. m., Clayton
	Rays of fin, with vertebræ; type of order.	of the state of
203	Ptychodus	c. m., Glynde
	Rays of fin.	
204	Ptychodus polygyrus (Ag)	u. c., Charlton
	Tooth.	
205	Ptychodus rugosus (Ag)	u. c., Chalton
	Teeth.	
206	Ptychodus Altior (Ag)	u. c.,
	Teeth.	
207	Ptychodus depressus (Dix)	u. c.,
	Teeth.	
208	Acrodus cretaceus (Eg)	c. m., Southeram
	Tooth.	
209	Acrodus Illingworthii (Eg)	cm., Southeram
	Group of teeth; type of order.	
210	Antodus Agassizi (Dix)	c. m., Glynde
	Tooth; type of order.	

Wall Case 8.

SHELL FISH.

Province—Mollusca.

Class—Cehalopoda.

Order—Tetrabranchiata.

Character—Branchiæ, or gills four.

Range—From Upper Cambrian to present day.

1	Ammonites	Rhotomagensis	(Sharp)	c. m.,	Clayton
2	Ammonites	Rhotomagensis	(Sharp)	c. m.,	Clayton
3	Ammonites	Rhotomagensis	(Sharp)	c. m	Clayton

	· · · · · · · · · · · · · · · · · · ·	01.
	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
5	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
6	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
7	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
8	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
9	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
10	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
11	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
12	Ammonites Rhotomagensis (Sharp)	c. m., Clayton
	Containing a univalve shell.	
13	Ammonites Austeni (Sharp)	c. m., Clayton
	Type of order.	
14	Ammonites Wolgari (Sharp)	c. m., Clayton
	Type of order.	
15	Ammonites Wolgari (Sharp)	c. m., Clayton
	Cast.	
16	Ammonites falcatus (Sharp)	c. m., Clayton
	Grey chalk of Clayton tunnel; type of order.	
17	Ammonites falcatus (Sharp)	c. m., Clayton
18	Ammonites varians (Sharp)	c. m., Clayton
19	Ammonites Rhotomagensis (Sharp)	m. c., Lewes
20	Ammonites Coupei (Sharp)	m. c., Lewes
21	Ammonites Coupei (Sharp)	m. c., Lewes
22	Ammonites Coupei (Sharp)	m. c., Lewes
23	Ammonites	
24	Ammonites	
25	Ammonites navicularis (Sharp)	
26	Ammonites navicularis (Sharp)	prised metro.
27	Ammonites sp.	make sale may 14
	Ammonites sp.	m. c., Sedlescombe
Carried .	Ammonites sp.	Capaling and the safe of the
1	+	

- 30 Ammonites navicularis (Sharp)
- 31 Ammonites varians (?)
- 32 Ammonites sp.
- 33 Ammonites sp.
- 34 Ammonites sp.
- 35 Ammonites goupillianus (Sharp); also A. Rhotomagensis
- 36 Ammonites sp.
- 37 Ammonites falcatus (?)

Wall Case 9.

38 Ammonites Lewisiensis u. c., Rottingdean
Fragment of enormous shell, showing the ramifications of the partition walls of the chambers.

39 Ammonites Lewisiensis

l. c., Clayton

Smaller specimen of the same species as 38, showing the ramifications of the partition walls in a better state of preservation.

40 Ammonites Lewisiensis m. c., Malling
41 Ammonites sp. m. c., Malling
42 Ammonites sp. m. c., Malling

43 Ammonites catinus

Case 8.

44 Nautilus Fleurisianus	c. m., Clayton
45 Nautilus lævigatus (Sharp)	m. c., Lewes
46 Nautilus elegans (Sharp)	m. c., Lewes
Section showing partitions.	
47 Nautilus elegans (Sharp)	c. m., Clayton
48 Nautilus elegans (Sharp)	c. m., Clayton
49 Nautilus elegans (Sharp)	c. m., Clayton

50 Nautilus Deslongchampsiansus (d'Orb)	c. m., Clayton
51 Nautilus sp.	c. m., Clayton
Young.	
52 Nautilus expansus (Sharp)	c. m., Clayton
53 Nautilus sp.	c. m., Clayton
54 Nautilus sp.	c. m., Clayton
55 Turrilites Mantellii (Sharp)	c. m., Clayton
56 Turrilites Mantellii (?) (Sharp)	c. m., Clayton
57 Turrilites tuberculatus (Sharp)	c. m., Clayton
58 Turrilites tuberculatus (Sharp)	c. m., Clayton
59 Turrilites tuberculatus (Sharp)	c. m., Clayton
60 Turrilites Bergeri (Sharp)	c. m., Clayton
61 Turrilites costatus (Sharp)	c. m., Hamsey
62 Turrilites costatus (Sharp)	c. m., Hamsey
63 Turrilites costatus (Sharp)	
64 Turrilites costatus (Sharp)	
65 Turrilites costatus (Sharp)	
66 Turrilites Scheuchzerianus (Sharp)	
67 Turrilites Scheuchzerianus (Sharp)	c. m., Hamsey
68 Turrilites sp.	
69 Turrilites sp.	
70 Scaphites striatus (Mant)	c. m., Clayton
71 Scaphites striatus (Mant)	c. m., Clayton
72 Scaphites striatus (Mant)	c. m., Clayton
73 Scaphites striatus (Mant)	c. m., Clayton
74 Scaphites striatus (Mant)	c. m., Clayton
75 Scaphites striatus (Mant)	c. m., Clayton
76 Scaphites costatus (Mant)	c. m., Clayton
77 Scaphites costatus (Mant)	c. m., Clayton
78 Scaphites costatus (Mant)	c. m., Clayton

79	Hamites (?)	c. :	m.,	Clayton
	Probably a Nautilus Deslongchampsiansus crushed			
80	Hamites (?)	c. :	m.,	Clayton
	Probably Ammonites Navicularis crushed.			DATE VAL
81	Hamites (?)	c.	m.,	Clayton
	Probably A. Navicularis crushed.			
82	Hamites attenuatus (Buck)	c. 1	m.,	Clayton
83	Hamites attenuatus (?) (Mant)		***	Clauton
	Angustus attenuatus (Dixion)	G	ш.,	Clayton
84	Hamites attenuatus (?) (Mant)	c. 1	m.,	Clayton
85	Hamites attenuatus (?) (Mant)	c. 1	m.,	Clayton
86	Hamites attenuatus (?) (Mant)	c. 1	m.,	Clayton
87	Hamites attenuatus (?) (Mant)	c. 1	m.,	Clayton
	Hamites attenuatus (?) (Mant)	c. 1	m.,	Clayton
89	Hamites attenuatus (?) (Mant)			Clayton
	Ancyloceras sp.			Clayton
91	Bacculites Faujasii	c. 1	m.,	Clayton
92	Bacculites bacculoides (Mantel)	c. 1	m.,	Clayton
93	Bacculites Faujasii	c. 1	m.,	Clayton
94	Bacculites Faujasii	c. :	m.,	Clayton
95	Bacculites Faujasii	c. :	m.,	Clayton
96	Bacculites Faujasii	c. :	m.,	Clayton
97	Bacculites Faujasii	c. 1	m.,	Clayton
98	Bacculites Faujasii	c. :	m.,	Clayton
99	Bacculites Faujisii	c. 1	m.,	Clayton
100	Bacculites sp.	c. 1	m.,	Clayton
10	1 Bacculites (?)			Clayton
	Chamber of.		H	198 11
103	2 Belemnitella mucronata (d'Orb)	c. 1	m.,	Clayton
108	Belemnitella mucronata (d'Orb)	c. 1	m.,	Clayton
104	4 Belemnitella mucronata (d'Orb)			Clayton

105	Belemnitella mucronata (d'Orb)	u. c., Brighton
106	Belemnitella mucronata (d'Orb)	u. c., Brighton
107	Belemnitella mucronata (d'Orb)	u. c., Brighton
108	Belemnitella mucronata (d'Orb)	u. c., Brighton
109	Belemnitella plena (Sharp)	c. m., Newtimber
110	Belemnitella	c. m., Newtimber
111	Belemnitella Baudouini (Sharp)	c. m., Newtimber
112	Belemnitella quadrata (Sharp)	c. m., Newtimber
113	Belemnitella sp.	c. m., Newtimber
	Lanceolata.	
114	Belemnitella sp.	c. m., Newtimber
115	Belemnitella sp.	c. m., Newtimber
116	Belemnitella sp. (?)	u. c., Brighton
117	Rhyncolites sp.	setual (in altor (i))
	Beak of cuttle-fish or other cephalopod.	
118	Rhyncolites sp.	c. m., Clayton
119	Rhyncolites sp.	c. m., Clayton

Case 9.

 $\begin{array}{c} Province - \text{Mollusca.} \\ Class - \text{Gasteropoda.} \end{array}$

100 D 11 11m (D'	01.
120 Dentalium difforme (Dixon)	c. m., Clayton
121 Dentalium, cast	m. c., Malling
122 Rostellaria Parkinsoni	c. m., Newtimber
123 Aporrhais stenopterus (Dixon)	c. m., Clayton
124 Pterocera	c. m., Clayton
125 Pterocera	1. c., Glynde
126 Pterocera	c. m., Clayton Tunnel
127 Pterocera	c. m., Clayton Tunnel

128 Pterocera	c. m., Clayton Tunnel
129 Pterocera	c. m., Clayton Tunnel
130 Rostellaria Dupiniana (d'Orb)	c. m., Clayton Tunnel
131 Cassidaria inserta (Dixon)	c. m., Newtimber
Dolium nodosum	
Type of order.	Albumanial (44
132 Cerithium (?)	u. c., Malling
133 Cerithium (?)	u. c., Malling
134 Cerithium ornatum	u. c., Malling
135 Scalaria compacta (Dixon)	c. m., Clayton Tunnel
136 Solarium ornatum (Fitton)	c. m., Clayton Tunnel
137 Solarium catenatum (Dixon)	c. m., Glynde
138 Solarium ornatissimum (?)	c., m., Clayton
139 Solarium Martinianum (?) (d'	Orb) c. m., Clayton
140 Solarium dentatum (d'Orb)	c. m., Clayton
141 Solarium dentatum (?)	c. m., Clayton
142 Cirrhus, cast	c. m., Clayton
143 Avellana incrassata (d'Orb)	c. m., Clayton
144 (?)	c. m., Clayton
145 Turritella (?)	c. m., Clayton
146 (?)	c. m., Clayton
147 (?)	c. m., Shul
148 Avellana (?)	
149 Turritella (?)	m. c., Malling
150 (?) Trochus	c. m., Glynde
151 (?)	c. m., Clayton
152 Trochus gibbula	c. m., Clayton
153 Turbo	c. m., Clayton
154 Turbo	c. m., Clayton
155 (?)	c. m., Clayton

156 Turbo gemmatus	m. c., Malling
157 Turbo gemmatus	m. c., Malling
158 Turbo gemmatus	m. c., Malling
In flint.	
159 Trochus linearius	c. m., Clayton Tunnel
160 Trochus linearius	c. m., Clayton Tunnel
161 (?) Cirrhus	m. c., Malling
162 Pleurotomaria reticulata	c. m., Clayton Tunnel
This shell is indistinguishable from Kimmeridgean zones.	those in the Oxfordian and
163 Pleurotomaria Cassiniana (?)(d'Orb) c. m., Clayton Tnl.
164 Pleurotomaria	m. c., Malling
165 Pleurotomaria perspectiva	m. c., Malling
166 Pleurotomaria perspectiva	c. m., Newtimber
167 Pleurotomaria perspectiva	c. m., Southeram
168 Pleurotomaria perspectiva	c. m., Clayton
169 Pleurotomaria perspectiva	u. c., Brighton
170 Pleurotomaria perspectiva	u. c., Brighton
171 Pleurotomaria perspectiva	c. m., Clayton
172 Pleurotomaria perspectiva	m. c., Malling
173 Pleurotomaria perspectiva	c., Wilts
174 Pleurotomaria perspectiva	Wiltshire
175 Pleurotomaria (cirhus) depres	ssa m. c., Lewes
Control of the Contro	u. c., Brighton
D · NIII	
Province—Mollusca. Class—Lamellibranchiata.	
Ctass—Lamempranchata.	
176 Teredo amphisbæna (Dix)	m. c., Malling
177 Teredo amphisbæna (Dix)	c. m., Clayton
178 Teredo amphisbæna (Dix)	m. c., Malling
179 Teredo amphisbæna (Dix)	u. c. Brighton

180 Teredo amphisbæna (Dix)	u. c., Sotheram
181 Teredo amphisbæna (Dix)	u. c., Sotheram
182 Teredo amphisbœna (Dix)	u. c., Sotheram
183 Teredo amphisbæna (Dix)	u. c., Brighton
184 Teredo amphisbæna (Dix)	c. m., Glynde
185 Pholadomya	c. m., Southeram, Lewes
186 Cardium Cenomanense	c. m., Clayton Tunnel
187 Cardium Cenomanense	
188 Cardium Cenomanense	
189 (?)	Marie Planta Marie Marie 200
190 (?)	
191 (?)	LA CONTRACTOR SAFE
192 (?)	
194 (?)	
195 (?)	
196 (?)	
197 (?)	c. m., Clayton Tunnel

Case 5.

198 Arca		c. m., Clayton Tunnel
199 Arca		c. m., Dover
200 Arca		c. m., Clayton
201 Arca		c. m., Clayton
202 Arca		c. m., Clayton
203 Isocard	dium	c. m., Clayton
204 Isocard	dium	c. m., Glynde
205 (?)		c. m., Clayton
206 (?)		c. m., Newtimber
207 (?)		c. m., Clayton

208	(?)	c. m., Clayton
209	(?)	c. m., Clayton
210	Corbis rotundata (d'Orb)	c. m., Clayton
211	Corbis cordiiformis	c. m., Clayton
212	Cyprina	u. c., Brighton
213	Lima spinosa	Localities varying
214	Lima Hooperi c. m.,	u. and l., Clayton
215	Lima aspera	u. c., Brighton
216	Lima parallelum (?) intermedia (?)	c. m., Clayton
217	Lima, fragment	c. m., Clayton
218	Lima Royeriana (?) (d'Orb)	c. m. Glynde
219	Lima semisulcata (Desh)	c. m., Clayton
220	Spondylus fimbriatus (dianchora)	u. c., Brighton
221	Spondylus fimbriatus	u. c., Brighton
222	Spondylus fimbriatus	c. m., Glynde
223	Spondylus latus	u. c., Seaford
224	Spondylus latus	u. c., Brighton
225	Spondylus latus	u. c., Brighton
226	Spondylus Gibbosus	u. c., Brighton
227	Spondylus Gibbosus	flint, Brighton
228	Spondylus superbus	u. c., Seaford
229	Lima (?) granosa (Dix) plicatula (?)	c. m., Newtimber
230	Pecten æquicostatus (d'Orb)	flint,
231	Pecten æquicostatus (d'Orb)	flint,
232	Pecten æquicostatus (d'Orb)	m. c., Malling
233	Pecten quinquecostatus (d'Orb)	m. c., Malling
234	Pecten quinquecostatus (d'Orb)	1. c., Clayton
235	Pecten quinquecostatus (d'Orb)	c. m., Newtimber
	Pecten quinquecostatus (d'Orb)	c. m., Newtimber
	Pecten quinquecostatus (d'Orb)	c. m., Newtimber

238 Pecten quinquecostatus (d	l'Orb) c. m., Newtimber
239 Pecten quinquecostatus (d	l'Orb) c. m., Clayton
240 Pecten quinquecostatus (d	l'Orb) c. m., Clayton
241 Pecten quinquecostatus (d	l'Orb)
242 Pecten quinquecostatus (d	l'Orb) (?)
243 Pecten nitida	u. c., Brighton
244 Pecten nitida (Dix)	u. c., Brighton
245 Pecten nitida (?) (d'Orb)	u. c., Brighton
246 Pecten nitida (?) (d'Orb)	u. c., Brighton
247 Pecten nitida (?) (d'Orb)	u. c., Brighton
248 Pecten nitida (?) (d'Orb)	u. c., Brighton
249 Pecten nitida (?) (d'Orb)	u. c., Brighton
250 Pecten nitida (?) (d'Orb)	u. c., Brighton
251 Pecten orbicularis (lamino	osa) (Mant) c. m., Clayton
252 Pecten orbicularis	c. m., Clayton
253 Pecten orbicularis	c. m., Newtimber
254 Pecten orbicularis	c. m., Newtimber
255 Pecten orbicularis	c. m., Newtimber
256 Pecten nitida	u. c., Brighton
257 Pecten orbicularis	c. m., Glynde
258 Pecten orbicularis	c. m., Glynde
259 Pecten (?)	c. m., Glynde
260 Pecten nitida	c. m., Glynde
261 Pecten orbicularis	c. m., Glynde
262 Pecten nitida	
263 Pecten (Mant)	c. m., Clayton
264 Pecten	(?)
265 Pecten Dujardini	m. c., Houghton
266 Pecten (?)	m. c., Houghton
267 Pecten Dujardini	m. c., Houghton

268	Pecten (?)	c. m., Newtimber
269	Pecten (?)	c. m., Clayton
270	Pecten	u. c., Brighton
271	Pecten Beaveri	c. m., Clayton
272	Pecten Beaveri	c. m., Glynde
273	Pecten Beaveri	c. m., Glynde
274	Pecten Beaveri	Newtimber
275	Pecten Beaveri	c. m., Glynde
276	Pecten Beaveri	c. m., Glynde
277	Pecten Beaveri	c. m., Clayton
278	Pecten Beaveri	(?)
279	Pecten Beaveri	(?)
	Pecten Beaveri	(?)
	Pecten Beaveri	(?)
282	Pecten Beaveri	c. m., Clayton
283	Pecten Beaveri	c. m., Glynde
284	Plicatula inflata	c. m., Southeram
285	Plicatula inflata	(?)
286	Plicatula inflata	(?)
287	Plicatula inflata	(?)
288	Dianchora lata	c. m., Clayton
289	Exogyra Rauliniana	
290	Exogyra Rauliniana	c. m., Clayton
291	Exogyra Rauliniana	c. m., Clayton
292	Exogyra Rauliniana	c. c., Seaford
293	Exogyra Rauliniana	m. c., Southeram
294	Exogyra Rauliniana	c. m., Clayton
295	Exogyra Rauliniana	c. m., Clayton
296	Exogyra Rauliniana	c. m., Clayton

297	Ostrea	(Oyster) u. c., Brighton
	Spat.	
298	Ostrea	u. c., Brighton
	Spat.	
299	Ostrea	u. c., Brighton
	Young.	
300	Ostrea	c. m., Clayton
	Young.	Belline Deliver to the second of the second
301		u. c., Brighton
302	Ostrea	u. c., Southeram
	Young ;	the space between the valves is converted into flint.
303	Ostrea	(?)
	Young.	
304	Ostrea	u. c., Brighton
	Young.	Additional of the Control of the Con
305	Ostrea	m. c., Lewes
004	Young.	A CONTRACT OF THE PARTY OF THE
306	Ostrea	c. m., Amberley
00-	Young.	or half from the second
307	Ostrea	m. c., Lewes
000	Young.	
308	Ostrea	m. c., Lewes
000	Young.	
309	Ostrea	u. c., Brighton
010	Young.	
310	Ostrea	
011	Young.	
311	Ostrea	c. m., Clayton
010	Young.	
312	Ostrea	
919	Young.	ge it is a mineral from the second of the
313	Ostrea	m. c., Lewes
	Young.	

314 Ostrea	STATE AND LINE COUNTY
About two years old.	
315 Ostrea	m. c., Lewes
316 Ostrea	m. c., Lewes
317 Ostrea	m. c., Lewes
318 Ostrea	m. c., Lewes
About three years old.	
319 Ostrea	m. c., Lewes
Three years old.	
320 Ostrea	m. c., Lewes
From three to four years old.	Isolaten municipal att
321 Ostrea Coulonii	m. c., Lewes
322 Ostrea	m. c., Lewes
323 Ostrea	
324 Ostrea vesicularis	
325 Ostrea	
326 Ostrea frons	c. m., Dover
327 Ostrea frons	c. m., Clayton
328 Ostrea carinata	The broadmine
329 Ostrea carinata	c. m., Newtimber
330 Gryphæa columba	to describe the second
331 Gryphæa columba	
Cono C	
Case 6	Strate Programme
332 Inoceramus concentricus	
332aInoceramus Brogniarti	m. c., Malling
	, ,

332aInoceramus Brogniarti m. c., Malling Group of shells. 333 Inoceramus Brogniarti l. c., Southeram 334 Inoceramus Brogniarti l. c., Southeram 335 Inoceramus Crispii u c., Brighton

	+
336 Inoceramus Crispii	u. c., Brighton
337 Inoceramus Cuvieri	m. c. Malling
338 Inoceramus sulcatus	m. c., Southeram
339 Inoceramus Cuvieri	m. c., Malling
340 Inoceramus Cuvieri	m. c., Southeram
341 Inoceramus digitatus	u. c., Brighton
342 Inoceramus pinniformis, N. S.	u. c., Brighton
343 Inoceramus pinniformis, N. S.	u. c., Brighton
Young.	Sherman in the Land
344 Inoceramus Websteri	m. c., Lewes
345 Inoceramus mytiloides	Warminster
346 Inoceramus mytiloides	(?)
347 Inoceramus mytiloides	(?)
Variety according to Mantell.	
348 Inoceramus	
Cast in flint.	
349 Inoceramus	
Cast in flint.	
350 Inoceramus	
Cast in chalk.	
351 Inoceramus	
Young.	Malling
352 Inoceramus	m. c., Malling
Hinge of.	m. c., Malling
353-4 Inoceramus Right and left valves; portion of hinge.	m. c., maning
355 Inoceramus	flint,
Cast of hinge.	port where a little
356 Inoceramus	flint,
Cast of hinge in flint.	Sport organismon The
357 Inoceramus	u. c., Brighton
Portion of hinge.	The Industry of the

358 Inoceramus	u. c., Brighton
Fragment of shell.	
359 Inoceramus	flint, Brighton
Cast of shell, with cast of borings in flint.	
360 Inoceramus	flint, Brighton
Cast of shell, with cast of borings in flint.	
361 Inoceramus	
Cast of shell, with cast of borings in flint.	avaid moned in the
362 Inoceramus	c. m., Clayton
363 Inoceramus	(?)
Fragment of shell	
364 Inoceramus	(?)
Fragment of shell.	
365 Avicula pectinata	u. c., Woolwich, Kent
366 Avicula pectinata	(?)
Cast.	
367 Avicula pectinata	c. m., Clayton
Cast.	
368 Pinna decussata	Brighton
Cast in flint.	at adding the first by
369 Pinna decussata	c. m., Newtimber
Both valves of shell.	(9)
370 Gervillia	(?)
371 Modiola quadrata	c. m., Clayton
372 Anomia	c. m., Clayton
373 (?)	c. m., Clayton
374 Hippurites	c. m., Folkestone
375 Hippurites Moretoni	m., c., Malling
Lower valve.	m a Amhanlan
376 Hippurites Moretoni Lower valve.	m. c., Amberley
Lower valve.	

377 Sp. 378 Sp.

Ashwell Cambs m. c., Southeram

Case 6.

Province—Mollusca.
Class—Brachiopoda.

- Terebratula bulla
 A series of specimens of various sizes.
- 2 Rhynconella gracilis
- 3 Terebratula
- 4 Terebratula
- 5 Rhynconella
- 6 Terebratula (?)
- 7 Rhynconella
- 8 Crania Ignabergensis
 Belgian species.
- 9 Crania Parisiensis
- 10 Rhynconella latissima
- 11 Rhynconella plicatilis
- 12 Terebratulina gracilis
- 13 Terebratulina striata

Case 3a.

CRUSTACEANS.

Province-Articulata.

Class - Crustacea.

Order-Podophthalmata.

Character-Articulated animals with eyes supported on stalks.

1 Enoploclytia Sussexiensis (Mant) l. m., Clayton

Fossil cray-fish; body and tail perfect; type of order.

By the fracture of the matrix, the internal bone of the jaw is plainly visible.

	2	Enoploclytia Sussexiensis (Mant) c. m., Clayton
		Head, thorax, and claws.
	3	Enoploclytia Sussexiensis (Mant) c. m., Glynde Claws.
	4	Enoploclytia Sussexiensis (Mant) c. m., Clayton Fragment of claw.
	5	Enoploclytia Sussexiensis (Mant) c. m., Clayton Secondary claw.
	6	Enoploclytia Sussexiensis (Mant) c. m., Clayton Claw.
	7	Enoploclytia Sussexiensis (Mant) c. m., Glynde Young individual; docked of its tail.
	8	Enoploclytia Sussexiensis (Mant) c. m., Glynde Claw.
	9	Enoploclytia Sussexiensis (Mant) c. m., Glynde Claw.
1	0	
1	.0	Enoploclytia Sussexiensis (Mant) c. m., Glynde Leg.
1	1	Enoploclytia Sussexiensis (Mant) c. m., Glynde Claw.
1	2	Enoploclytia Sussexiensis (Mant) c. m., Glynde Crushed superior plate of thorax.
1	3	Enoploclytia Leachii (Mant) u. c., Brighton Fossil craw-fish; two claws interlocked, showing the animal had been suddenly entombed and had convulsively clasped it claws.
1	4	Enoploclytia Leachii (Mant) u. c., Brighton Two claws.
1	5	Enoploclytia Leachii (Mant) u. c., Brighton Two claws, anteuna, and a portion of the head and thorax.
1	6	Enoploclytia Leachii (Mant) u. c., Brighton Head, thorax, and two claws.

Case 3b.

17	Enoploclytia Leachii (Mant)	u. c., Brighton
	Two claws, legs, and portion of thorax and tail.	
18	Enoploclytia sp.	
	Body and legs in one block of chalk; two claws	in another.
19	Enoploclytia sp. (? Sussexiensis)	u. c., Brighton
	Claw.	
20	Enoploclytia (? Sussexiensis)	
	Two claws	
21	Enoploclytia Leachii	u. c.,
	Tail.	
22	Mesostylus	
	Fragment of claw.	
23	Sp.	
	Fossil cray-fish, nearly perfect.	
24	Sp.	
	Leg and claw of crustacean.	
25	Sp.	
	Claw and foot jaws.	
26	Sp.	
	Fragments.	
27	Mesostylus Faujasii (Brong)	c. m., Clayton
	Fossil crab; claw.	
28	· 29 Sp.	
	Two fragments.	
30	Sp. c. m.	, Clayton Tunnel
	Fragment.	
31	Grapsus (?)	c. m., Clayton
	Claw (?)	

32 Sp. c. m., Clayton Tunnel
Fragment.

33 Mesostylus (?) c. m., Glynde
Superior portion of carapace of crab.

34 Sp. u. c. Brighton
Fragment of crustacean.

Order-Cirripedia; Family Lepadidæ.

Characters — Peduncle flexible, and provided with muscles; scuta furnished only with an adductor vessel; other valves, when present, not united into an immovable ring (Darwin).

35 Scalpellum angustum (Darwin) m. c., Southeram
Carina-ziphidium (Dix)

(Geology and Fossils of Sussex, Table xxviii., fig. 9)
One of valves.

36 Scalpellum lineatum (Darwin) l. c., Southeram
Carina; one of the valves.

37 Scalpellum maximum (Darwin) m. c., Lewes
Carina; one of the valves.

38 Scalpellum maximum (Darwin) m. c., Malling
Scutum; one of the valves.

39 Pollicipes glaber (Darwin) u. c., Brighton Turgum; one of the valves.

40 Loricula pulchella m. c., Malling
Ossicles.

41 Loricula pulchella (Sow)

Two valves and ossicles of barnacle.

Case 4.

Province—Annulata.
Class—Annelida.
Order—Serpulacea.

1	Serpula plexus (Dix)	u. c., Brighton
2	Serpula plexus (Dix)	m. c., Malling
3	Serpula annulata (Dix)	c. m.,
4	Serpula annulata (Dix)	u. c., Brighton
5	Serpula annulata (Dix)	
6	Serpula sp.	m. c., Lewes
7	Serpula sp.	harming to the Steel By
8	Serpula sp.	1. c., Southeram
9	Serpula sp.	u. c., Brighton
10	Serpula sp.	u. c., Brighton
11	Serpula sp.	u. c., Brighton
12	Serpula sp.	u. c., Brighton
13	Serpula sp.	u. c., Brighton
	Serpula sp.	u. c., Brighton
		· · ·

Case 3c.

Province—Annuloida.

Class—Echinodermata.

Order—Asteridea.

1	Oreaster squamatus (Forbes)	u. c., Woolwich
	Fossil star-fish; type of order.	
2	Oreaster bulbiferus (Forbes)	u. c., Woolwich
3	Oreaster pistilliformis	u. c., Seaford
4	Oreaster sp.	u. c., Seaford

ı			n · 1.
ŀ		Oreaster sp.	u. c., Brighton
	6	Oreaster sp.	u. c., Brighton
ı	7	Ophiura	u. c., Brighton
	8	Goniaster Mosaicus (Forbes)	l. c., Amberley
	9	Goniaster Smithii (Forbes)	l. c., Amberley
	10	Goniaster Smithii (Forbes)	c. m., Clayton Tunnel
	11	Type of order.	a wa Ambanlan
	11	Goniaster Mosaicus (Forbes) A remarkably fine specimen.	c. m., Amberley
	12	Goniaster Mosaicus (Forbes)	c. m., Amberley
	13	Goniaster sp.	Folkestone
	14	Goniaster Parkinsoni	u. c., Brighton
	15	Goniaster compactus (Forbes)	m. c.,
		Type of order.	
		Goniaster Combei (Dixon)	
	16	Goniaster Mantellii (Forbes)	m. c., Lewes
	17	Goniaster uncatus (Forbes)	u. c., Woolwich
	18	Goniaster uncatus (Forbes)	u. c.,
	19	Goniaster uncatus (Forbes)	u. c., Lewes
	20	Goniaster Parkinsoni (Forbes)	u. c., Lewes
	21	Goniaster Hunteri (Forbes)	u. c., Woolwich
	22	Goniaster sp.	u. c., Brighton
	23	Goniaster sp.	u. c., Brighton
		Case 3f.	
	24	Marsupites	u. c., Brighton
	25	Oreaster	u. c., Seaford
	26	Oreaster bulbiferus	A Cyclosome (1971)
	27	Goniaster sp.	u. c., Seaford

28	Oreaster	u. c., Brighton
29	Casts of ossicles in flint. Goniaster sp.	u. c., Brighton
	Cast of ossicles in flint.	u. c., Brighton
30	Goniaster sp.	u. c., Brighton
	Ossicles imbedded in flint.	
31	Oreaster	u. c., Seaford
	Fragment.	
32	Ophiura serrata	l. c., Folkestone
	Remarkably fine specimen, nearly perfect.	

Case 3d.

Order - Echinidea.

33	Cyphosoma variolaris (Desm)	u. c., Woolwich
34	Cyphosoma variolaris (Desm)	m. c., Lewes
35	Cyphosoma variolaris (Desm)	m. c., Lewes
36	Cyphosoma variolaris (Desm)	m. c., Lewes
37	Cyphosoma variolaris (Desm)	u. c., Woolwich
38	Cyphosoma variolaris (Desm)	m. c., Lewes
3 9	Cyphosoma variolaris (Desm)	m. c., Lewes
40	Cyphosoma variolaris (Desm)	u. c., Woolwich
41	Cyphosoma Milleri	u. c., Brighton
42	Cyphosoma Milleri	m. c., Malling
43	Cyphosoma (?)	m. c., Malling
44	Cyphosoma (?)	c. m., Folkestone
45	Cyphosoma (?)	c. m., Glynde
46	Cyphosoma (?)	c. m., Glynde
47	Cyphosoma (?)	c. m., Clayton
48	Cyphosoma (?)	m. c., Lewes

49 Cyphosoma (?)	
Cast.	
50 Cyphosoma (?)	
Cast.	
51 Salenia personata (Defr)	c. m., Glyde
52 Salenia scutifera (Defr)	u. c., Seaford Cliff
53 Salenia personata (Defr)	u. c., Seaford Cliff
54 Echinopsis pusillus	u. c., Seaford Cliff
55 Glypticus Koninckii	l. c., Southeram
56 (?)	u. c., Woolwich
57 (?)	m. c., Malling
58 (?)	m. c., Malling
59 (?)	m. c., Malling
60 Cidaris Bowerbankii (Forbes)	c. m., Newtimber
61 Cidaris Dixoni (Wright)	c. m., Clayton
Perfect spine; type of order.	
62 Cidaris (? Bowerbankii)	c. m., Newtimber
Spine, figured.	
63 Cidaris subvesiculosa (d'Orb)	l. c., Southeram
64 Cidaris clavigera (Konig)	u. c., Woolwich
A remarkably fine specimen, with the spin	es attached.
65 Cidaris clavigera (Konig)	u. c., Woolwich
66 Cidaris Bowerbankii (Konig)	l. c., Dover
67 Cidaris clavigera (Konig)	
Spine.	
Cidaris sceptrifera	
Test.	
68 Cidaris clavigera	
Spine.	
69 Cidaris clavigera	
Spine.	

- 70 Cidaris clavigera Spine.
- 71 Cidaris clavigera Spine.
- 72 Cidaris clavigera Spine.

Case 3e.

73	Cidaris sceptrifera (Mant)	u. c., Woolwich
74	Cidaris sceptrifera (Mant)	u. c., Woolwich
75	Cidaris sceptrifera (Mant)	u. c., Woolwich
76	Cidaris sceptrifera (Mant)	u. c., Woolwich
77	Cidaris sceptrifera (Mant)	u. c., Woolwich
78	Cidaris sceptrifera (Mant)	u. c., Woolwich
79	Cidaris sceptrifera (Mant)	u. c., Woolwich
80	Cidaris sceptrifera (Mant)	u. c., Woolwich
81	Cidaris sceptrifera (Mant)	u. c., Woolwich
82	Cidaris dissimilis (Forbes)	u. c., Brighton
83	Cidaris perornata (Forbes)	u. c., Houghton
	Test. and spines.	
84	Cidaris dissimilis (?) (Forbes)	m. c., Malling
	Test. and spines.	
85	Cidaris perornata (Forbes)	u. c., Brighton
	Test. imbedded in flint.	107 (calculated store
86	Cidaris (?) (Forbes	(?)
	Spines.	
87	Cidaris perornata (Forbes)	u. c., Woolwich
88	Cidaris perornata (Forbes)	
	Spines.	
89	Cidaris serrata (Wright)	m. c., Malling
	Test. and spines; type of order.	The same appears to the

90 Cidaris sulcata	1. c., Southeram
Test. and spines.	Manufa-Moule
91 Cidaris hirudo	1. c., Alfriston
Test. and spines.	
92 Cidaris sulcata	m. c., Burpham
93 Cidaris (probably perornata)	Brighton
Cast in flint.	
94 Cidaris (?)	in encuring # 451.
95 Echinus granulosus (Munster)	m. c., Malling
96 Galerites castanea (Brong)	u. c., Brighton
97 Galerites subuculus (Leske)	l. c., Glynde
98 Galerites cylindrica (Lamark)	
99 Galerites cylindrica (Lamark)	
100 Galerites cylindrica (Lamark)	
101 Galerites cylindrica (Lamark)	
102 Galerites cylindrica (Lamark)	
103 Galerites cylindrica (Lamark)	
104 Galerites cylindrica (Lamark)	
105 Galerites cylindrica (Lamark)	
106 Galerites	Woolwich
On an A	
Case 4.	
107 Galerites	c. m., Clayton
Group of tests.	
108 Galerites	
Group of tests.	
109 Galerites subrotundus	m. c., Lewes
110 Galerites	m. c., Lewes
111 Galerites	Lewes
Cast in flint,	Mary Mary Mary Mary

112	Galerites albogalerus (Klein) m. c., Malling
	A series, showing variations in form.
113	Galerites
114	Galerites
115	Galerites
116	Galerites
117	Galerites
118	Spatangus coranguinum
	A series, showing various modifications of size and form.
119	Ananchytes pallula (Lamark)
120	Ananchytes subglobosus (Leske) l. c.,
121	Ananchytes ovata
	A series.

Case 3f.

Order-Crinoidea.

122	Marsupites Milleri	u. c., Burpham
123	Marsupites Milleri	u. c., Burpham
124	Marsupites Milleri	u. c., Burpham
125	Marsupites Milleri	u. c., Burpham
126	Marsupites Milleri	u. c., Burpham
127	Marsupites Milleri	u. c., Burpham
128	Marsupites Milleri	u. c., Burpham
129	Marsupites lævigatus	u. c., Brighton
	Very fine specimen, with the arms attached.	
130	Marsupites lævigatus	u. c., Burpham
131	Marsupites lævigatus	u. c., Burpham
132	Marsupites lævigatus	u. c., Burpham
133	Marsupites lævigatus	u. c., Brighton

134 Marsupites	u. c., Brighton
Vase of arms.	annialisme nuli itali
135 Pentacrinus	m. c., Malling
New species, figured by Dixon; this unique the whole of the head, and a great part of the	
136 Pentacrinus	m. c., Malling
Portion of stem.	
137 Pentacrinus	m. c., Houghton
Portion of stem.	
138 Pentacrinus	m. c., Houghton
Portion of stem.	
139 Pentacrinus	m. c., Houghton
Portion of stem.	
140 Pentacrinus	Dr. Mantell's Coll.
Portion of stem.	
141 Pentacrinus	c. m., Clayton
Portion of stem.	
142 Pentacrinus	c. m., Glynde
Portion of stem.	
143 Pentacrinus	m. c., Houghton
Portion of stem.	WENNING THE PARTY.
144 Pentacrinus	m. c., Houghton
Crushed mass of ossicles of the head.	Male Company
145 Pentacrinus	m. c., Houghton
Crushed mass of ossicles of the head.	Minoral Manager Co.
146 Bourguetocrinus	u. c., Brighton
Fragments of roots by which the animal v	vas moored to its resting-
147 Bourguetocrinus	
148 Bourguetocrinus	
149 Bourguetocrinus	
150 Bourguetocrinus	
151 Bourguetocrinus	

152 Bourguetocrinus

153 Bourguetocrinus

A fine series of the ossicles of the stem and head, belonging probably to two or three distinct species.

Case 4.

154 Bourguetocrinus Coll. and arranged by Dr. Mantell Continuation of the preceding series.

Case 4.

Class-Anthozoa.

1	Parasmilia centralis	u. c., Brighton
2		
3	Parasmilia centralis	m. c., Lewes
4	Parasmilia centralis	m. c., Lewes
5	Parasmilia centralis	u. c., Brighton
6	Parasmilia centralis	
7	Parasmilia centralis	u. c., Kent
8	Parasmilia cultrata	u. c., Brighton
9	Parasmilia cultrata	u. c., Brighton
10	Parasmilia cultrata	u. c., Brighton
11	Parasmilia cultrata	u. c., Brighton
12	Parasmilia cultrata	c. m., Clayton Tunnel
13	Diblasus grevensis	u. c., Brighton
14	Diblasus grevensis	c. m., Amberley
15	Diblasus grevensis	c. m., Clayton Tunnel

Case 4.

Class-Polyzoa.

1	Tamenea cretacea	u. c., Seaford
	Figured by Dixon	KINSTONING CHAPTER
2	Holostoma contingens	u. c., Brighton
	Fig.	
3	Homœosolen ramulosum	u. c., Brighton
4	Desmeopora semicylindrica (Di	xon) u. c. Seaford
5		u. c., Seaford Cliff
6		u. c , Woolwich, Kent
7		u. c., Brighton
8		u. c., Brighton
9		u. c., Brighton
10		u. c., Brighton
11	Desmeopora	u. c., Seaford Cliff
12	Alecto ramea (Dixon)	u. c., Brighton
13	Alecto ramea (Dixon)	u. c., Brighton
14	Alecto ramea (Dixon)	u. c., Brighton
15	Petalopora pulchella	· u. c., Seaford
16	Petalopora pulchella	u. c., Seaford
17	Petalopora pulchella	u. c., Seaford
18	Petalopora pulchella	u. c., Seaford
19	Diastopora Sowerbii	u. c., Brighton
20	Diastopora Sowerbii	u. c., Brighton
21	Petalopora pustulosa	u. c., Seaford
22	Diastopora arboresens (Daubigi	ny, Pl. 638) u. c., Seaford
23		u. c., Seaford
24	THE REAL PROPERTY OF THE PARTY	u. c., Brighton

25		u. c., Seaford
26		u. c., Brighton
27		u. c., Seaford
28		u. c., Brighton
29	Flustra urelagans (Dixon)	u. c., Seaford
30	Flustra urelagans (Dixon)	u. c., Seaford
31	Flustra urelagans (Dixon)	u. c., Seaford
32	Reptomulticava (d'Orbigny)	u. c., Brighton
33	Reptomulticava (?) (d'Orbigny)	u. c., Brighton
34	Reptomulticava (?) (d'Orbigny)	u. c., Brighton
35	Reptomulticava (?) (d'Orbigny)	u. c., Seaford
36	Reptomulticava (?) (d'Orbigny)	u. c., Seaford
37	Reptomulticava (?) (d'Orbigny)	u. c., Seaford
38		u. c., Seaford
39		u. c., Seaford
40		m. c., Lewes
41		u. c., Brighton
42	Axogaster cretacea (Dixon)	u. c., Seaford
43	Filicrisina (d'Orbigny, C.P.L. 709)	m. c., Lewes
44	Semimulticlausa variabilis (d'Orb, Pl	. 767) u. c., Brighton
45	Lunulites (d'Orb)	u. c., Worthing
46	Lunulites (d'Orb)	u. c., Worthing
47	Lunulites (d'Orb)	u. c., Brighton
48	Lunulites (d'Orb)	u. c., Worthing
49		u. c., Brighton
50		u. c., Seaford
51		u. c., Seaford
52		
53		u. c., Seaford Cliff
54	l. c., North	Stoke, near Arundel

1. c., North Stoke, near Arundel
1. c., Glynde

Case 4.

FOSSIL SPONGES.

Class-Protozoa.

1	Paramoudra Minima	m. c., Lewes
	Paramoudra Minima	m. c., Lewes
3	Paramoudra Minima	c. m., Southeram
4	Paramoudra Minima	u. c., Brighton
	Paramoudra Minima	
	Paramoudra Minima	m. c., Lewes
	Paramoudra Minima	u. c., Brighton
8	Paramoudra Minima	m. c., Lewes
9	Paramoudra Minima	m. c., Lewes
10	Paramoudra Minima	u. c., Brighton
11	Paramoudra Minima	u. c., Brighton
12	Paramoudra Minima	
13	Paramoudra Minima	
14	Paramoudra Minima	l. c., Southeram
15	Paramoudra Minima	u. c., Brighton
16	Paramoudra Minima	u. c., Brighton
17	Paramoudra Maxima	u. c., Norwich
18	Paramoudra Maxima	u. c., Norwich

Case 3g.

20	Brachiolites digitatus	c. m., Clayton
21	Brachiolites	c. m., Clayton
22	Brachiolites	c. m., Glynde
23	Brachiolites	c. m., Glynde
24	Brachiolites elegans	m. c., Malling
	Stem enveloped in flint.	
25	Brachiolites	m. c., Malling
26	Brachiolites tubulata	m. c., Malling
27	Brachiolites tubulata	m. c., Malling
28	Brachiolites labrosus	c. m., Amberley
29	Brachiolites	m. c., Malling
30	Brachiolites	(?)
31	Brachiolites	m. c., Malling
32	Brachiolites	(?)
33	Brachiolites convolutus .	m. c., Malling
34	Brachiolites angularis	m. c., Malling
35	Brachiolites racemosus	u. c., Brighton
36	Brachiolites	m. c., Malling
37	Cephalites guttatus	m. c., Malling
38	Cephalites guttatus	m. c., Malling
39	Cephalites capitatus	c. m., Clayton
40	Cephalites longitudinalis	m. c., Malling
41	Brachiolites angularis	u. c., Brighton
42	Brachiolites angularis	
43	Brachiolites angularis	m. c., Glynde
44	Brachiolites angularis	m. c., Glynde
45	Cephalites bullatus	1. c., Glynde
46	Cephalites catenifer	m. c., Malling
47	Cephalites longitudinalis	m. c., Malling
48	Cephalites paradoxus	m. c., Malling

49 Cephalites constrictus	c. m., Clayton
50 Cephalites constrictus	l. c., Glynde
51 Cephalites constrictus	· 1. c., Glynde
52 Cephalites compressus	
53 Brachiolites angularis	Brighton, c. m., Clayton
54 Cephalites	Brighton

Case 3h.

55	Ventriculités	m. c., Lewes
	In flint.	game brains to
56	Ventriculites tenuiplicatus	m. c., Lewes
	In chalk.	
57	Ventriculites tenuiplicatus	m. c., Lewes
	In chalk.	
58	Ventriculites decurrens	m. c., Lewes
	In chalk.	
59	Ventriculites	m. c., Lewes
	Showing root, in chalk.	
60	Vertriculites	c. m., Glynde
	In chalk.	
61	Ventriculites impressus	c. m., Glynde
	In chalk	
62	Ventriculites impressus	m. c., Lewes
	In chalk.	
63	Ventriculites	m. c., Lewes
64	Ventriculites	
	Showing root, in flint.	
65	Ventriculites	m. c., Lewes
	Cast, in chalk,	Animal Ulandia 200

		· ·
66	Ventriculites	m. c., Lewes
67	Ventriculites	m. c., Lewes
68	Ventriculites	u. c., Brighton
69	Ventriculites	Hartzerrand a hills in Lau T. 52
	Root, in flint	
70	Ventriculites	
	Root, in flint.	
71	Ventriculites	
	Root, in flint.	
72	Ventriculites	m. c., Malling
	In chalk.	
73	Ventriculites	m. c., Malling
	In chalk.	Holland Land Land
74	Ventriculites	m. c., North Stoke
	In chalk.	
75	Ventriculites impressus	m. c., Malling
76	Ventriculites	m. c., Malling
77	Ventriculites	m. c., Malling
78	Ventriculites bicomplicatus	c. m., Clayton Tunnel
	Ventriculites	c. m., Clayton Tunnel
80	Cephalites capitatus	u. c., Brighton
81	Ventriculites	m. c., Malling
82	Ventriculites	m. c., Malling
83	Ventriculites	m. c., Malling
84	Ventriculites	

Case 10.

85 Ventriculites radiatus Encased in flint.

m. c., Lewes

86 Ventriculites radiatus	m. c., Lewes
Encased in flint.	
87 Ventriculites impressus (?)	Heytesbury
88 Ventriculites impressus (?)	
89 Ventriculites impressus (?)	Heytesbury
90 Ventriculites impressus (?)	Heytesbury
91 Ventriculites impressus (?)	Heytesbury
92 Ventriculites impressus (?)	Heytesbury
93 Ventriculites impressus (?)	Heytesbury
94 Ventriculites impressus (?)	Heytesbury
95 Ventriculites impressus (?)	Heytesbury
96 Ventriculites impressus (?)	Heytesbury
97 Ventriculites	Heytesbury
98 Ventriculites	Heytesbury
99 Ventriculites	Heytesbury
100 Ventriculites	Heytesbury
101 Ventriculites	Heytesbury
102 Ventriculites	Heytesbury
103 Ventriculites	Heytesbury
104 Ventriculites	Heytesbury
105 Ventriculites	Heytesbury
106 Ventriculites	Heytesbury
107 Ventriculites	Heytesbury
108 Ventriculites	Heytesbury
109 Ventriculites	Heytesbury
110 Ventriculites simplex	m. c., Malling
111 Ventriculites simplex	m. c., Malling
112 Ventriculites simplex	m. c., Malling
113 Cephalites	m. c., Malling
114	m. c., Southeram

115		
116		m. c., Malling
117	Ventriculites	Autorit estimates and
118	Ventriculites cavatus	
119	Ventriculites radiatus	Heytesbury, Wilts
120		u. c., Brighton
121		(?)
122		Wiltshire
123		(?)
124		u. c., Brighton
125	Ventriculites	u. c., Brighton
	Root of.	
126	Coscinopora perforata	n a Pariabtan
	Coscinopora perforata	u. c., Brighton
128	Cosemopora periorata	u. c., Brighton
	C:	(?)
	Coscinopora perforata	
	Coscinopora perforata	
131		m. c., Amberley
	Cast of sponge in sulphide of iron.	
132		m. c., Amberley
	Cast of sponge in sulphide of iron.	
133	Choanites	m. c., Southeram
	Imbedded in flint.	The state of the s
134	Choanites	
	Imbedded in flint.	
135		(?)
136	Choanites Konigi	m. c., Houghton
	Choanites Konigi	Brighton Beach
	Choanites Konigi	Brighton Beach
	Choanites Konigi	Brighton Beach
	Ö	2. ignion Diach

140 Choanites Konigi Brighton Beach

141 Choanites Konigi

Case 7.

142

143

144

145

146

147 Alcyoniform body (?)

Section of mass of chalk that probably owes its form to the presence of an alcyoniform creature.

148 Alcyoniform body

Closely resembling No. 147, is placed underneath Table Case 29; part of it has been converted into iron pyrites (sulphide of iron).

149 Alcyoniform body

Apex of.

150 Alcyoniform bodies

Casts of.

The rest of this Case is filled with a series of casts of sponges in flint, that are for the most part covered with a coating of chalcedony; the more beautiful Brighton pebbles consists of the section of a sponge and its chalcedonic covering.

Case 10.

WAIFS FROM THE LAND, IN CHALK.

1 Fragment of fossil drift-wood Imbedded in flint. Lewes

2 Fragment of fossil drift-wood Imbedded in flint. Brighton

3 Fragment of fossil drift-wood Imbedded in flint.

m. c., Malling

4	Fragment of fossil drift-wood	(?)
	Imbedded in flint.	Prismail 1187
5	Fragment of fossil drift-wood	(?)
	Imbedded in flint.	
6	Fragment of fossil drift-wood	Lewes
	Imbedded in flint.	
7	Fragment of fossil drift-wood	Lewes
	Imbedded in flint.	
8	Fragments of wood	u. c., Brighton
	Perforated by teredo shells; which prove that it it was imbedded in chalk.	
9	Fragments of wood c. m.,	Clayton Tunnel
	Perforated by teredo shells.	
10	Fragments of wood	l. c., Southeram
	Perforated by teredo shells.	
11	Fragments of wood	m. c., Malling
	Perforated by teredo shells.	
12	Fragments of wood	u. c., Brighton
	Perforated by teredo shells.	
13	Fragment of wood	u. c., Brighton
	Imbedded in chalk.	10 17 18 18
14	Coniferæ	l. c., Glynde
	(?) Fragments of needles of pines.	line of the line
15	Coniferæ	m. c., Malling
	(?) Fragments of needles of pines.	
16	Coniferæ	1. c., Glynde
	(?) Fragments of needles of pines.	
	Drift-stones, carried probably by seaweed, post the shore into the ocean, at the bottom of what formed. They all consist of paleogoic rocks, such the Channel Islands, the opposite coast of France, or Scotland.	as may be found in
17	Large pebble of quartzite	n. c., Houghton
	Rounded by the waves, and bearing on its water- and polyzoa; among the former is a valve of spone	worn surface shells

18	Fragment of quartz 1.	. с.,	North Stoke
19	Fragments of quartz	c.	m., Clayton
	Partly encrusted with green sand; it bears an o	yster	on its surface.
20	Pebble of Lydian stone	c.	m., Clayton
21	Pebble	c.	m., Clayton
22	Clay slate 1.	. с.,	North Stoke
23	Clay slate 1.	. с.,	North Stoke
24	Clay slate		l. c., Lewes
25	Pebble		l. c., Lewes
26	Trappean pebble		l. c., Lewes
27			

Case 12.

MINERALS IN CHALK.

A series of Specimens showing various minerals found in Chalk, and different forms assumed by Flint.

- 1 Various forms of iron pyrites (sulphide of iron)
- 2 A fragment of nodule of iron pyrites, containing selenite l. c., Ditchling

Very rare.

- 3 Interior of sea-urchin, partially changed into sulphide of iron
- 4 Various forms assumed by carbonate of lime when crystallized
- 5 Websterite, or subsulphate of alumina

A series of specimens showing the various modes of silicafication.

(A fine series of this rare mineral is deposited under Table Case 2a, b.)

6 The inner whorls of an ammonite covered with and converted into flint

It is a remarkable instance of the frequent obliteration of structure caused by silicafication; had not the rest of the ammonite been found, it would have been impossible to prove that this had ever formed part of a shell.

- 7 Banded flint
- 8 Banded flint
- 9 Flint formed round a mass of wood
- 10 Flint formed round sponge
- 11 Flint formed round sponge
- 12 Flint accumulated round sea-urchin (ananchytes ovata)
- 13 Flint accumulated round sea-urchin (ananchytes ovata)
- 14 Spondylus spinosus imbedded in flint.

The shells and sea-urchins most probably were covered with flint, because they were first of all overgrown with sponges.

- 15 Fragmacone of belemnite perforated by cliona, and covered with flint
- 16 Flints stained with peroxide of iron
- 17 Flints stained with peroxide of iron
- 18 Flints stained with peroxide of iron
- 19 Flint stained with peroxide of manganese and iron, which assumes a moss-like form
- 20 Fragment of flint illustrating conchoidal fracture