- Fig. 10. From the right side; fig. 10a, from above; fig. 10b, from below; fig. 10c, from the left side, the allantois partly opened; fig. 10d, the same, the allantois being cut away; fig. 10e, the same, from behind; fig. 10f, the same as 10d, 10e, from above. Cistudo virgines, nat. size. Just ready to hatch. Period of laying unknown; fig. 10, 10b, 10c, opened Aug. 31, 1855; fig. 10a, 10d, 10e, 10f, opened Sept. 5, 1855.
- Fig. 11, 11a, 11b, a, b. Crystals of nitrate of lime. See p. 508, on the structure of the egg-shell.

PLATE XVIIIA.

[Fig. 1, 9, 8, from nature, by A. Sonrel, the others by H. J. Clark.]

- Fig. 11, 12, 13, 14. Nanemys guttata, the others, Chelydra serpentina. Throughout the Plate the letter a designates the amnios; a', the cephalic hood; a', the caudal hood; el, the medulla oblongata ; el, the corpora quadrigenina ; e, the choroid plexus; f, the vertebras; h, the heart; h', the sorts, or sortic bulb; λ^{i} , the branchial sorts; λ^{i} , the auricle; h, the ventricle; i, the vena afferens; i, the allantoidian vein; i, the abdominal vein; i, the junction of the allantoidian and abdominal voin; i, the cephalic vein; j, the cephalic artory ; j, the dorsal artery ; j, the allantoidian artery ; j, the omphalo-meseraic artery ; ,, the junction of the abdominal or dorsal artory and the omphalo-meseraic artery ; jo, the junction of the abdominal and allantoidian arteries; k, the eyes; l, the cars; m, the branchial fissures; n', n', the intestine ; nº, the stomach ; nº, the junction of the allantois and intestine, except in fig. 5, where it refers to the asophagus; n', the asophagus; n', the anus; g, the Wolffian bodies; r, the liver; t, the windpipe; t', the lungs; u, the gall cyst; u, the nostrils.
 - Fig. 1. Head of PL 15, fig. 7, 4 diam. ; j1, cephalic artorics.
 - Fig. 2. Young turtle from above, 21 diam. Taken from the oviduct, July 20, opened Sept. 19, 1855.
 - Fig. 3. From below, 2 diam. Laid open to expose the organs; the same as fig. 2.
 - Fig. 4. Wolffian body, intestine, liver, and bloodvessel dissected out; the anterior end is on the right; about 5 diam. Laid June 12, opened July 29, 1855.
 - Fig. 5. Heart, vessels, liver, intestine, dissected out; the anterior end is to the left; the same as fig. 4.
 - Fig. 6. Ilcart and branchial aortas, about 10 diam. Laid Juno 18, opened July 25, 1855.
 - Fig. 7. Anterior end of fig. 8, from above; fig. 7a, posterior end of fig. 8, and 9, from below, laid open. Where the

allantoidian arterics (J^*) join the abdominal artery, (J^*) , the intestine (n^i) is cut away.

- Fig. 8. This figure, the largest of the Plate, is erroneously marked 2 in most copies. The same as fig. 6, 7, 7a, 9, from the right side. The Wolflian body (q) is drawn down a little, to expose the dorsal artery (J^3) ; about 10 diam.
- Fig. 9. The same as fig. 8, from below, about 5 diam. Laid open before and behind, and the allanteis, the amnios, and the yolk sac turned aside.
- Fig. 10. Heart, and adjoining vessels, dissected out; 10 diam. Laid June 13, opened July 17, 1855.
- Fig. 11. Heart, and branchial arteries from the right side; 25 diam. Laid July 14, opened Aug. 2, 1852.
- Fig. 12. Heart, from the left side ; the same as fig. 11.
- Fig. 13. Anterior part of the body from the right side, 12 diam. Laid July 15, opened July 26, 1852. The dotted lines which should connect the letters λ^a and λ^i are unfortunately omitted; λ^a should go to the dark hole in the heart, which is nearest to the letter, and λ^i to that part of the norta which is just below the longest branchial fissure, (m,) that runs from the ear (b) downwards. The i nearest to the letter λ^a should be i.
- Fig. 14. From the left side. The amnios, (a,) behind the head, laid open; 12 diam. Laid July 10, opened July 20, 1852. The first letter to the left of k should be e' instead of e'.

PLATE XIX.

[Drawn from nature, by H. J. Clark.]

- Fig. 1, 2, 3, 4, 5 to 5d, 6, 7, 8, 22 are from Nanemy's guttata, the others from Chelydra serpentina.
- Fig. 1. Cells on the surface of the head near the eye, 300 diam. Laid July 18, opened July 28, 1852.
- Fig. 2. Surface cells of the tail, 500 diam.; c, profile; a, a cell; b, its mesoblast. Laid July 11, opened July 22, 1852.
- Fig. 3. A vortebra, 500 diam. Laid July 18, opened July 27, 1852.
- Fig. 4. Transverse section across the middle region of the body, and between the vertebre, 40 diam.; (a, cells from the dermal layer, (f_i) 500 diam.); a', spinal tube; b, chorda dorsalis; c, dorsal artery; d, Woltlian bodies; e, duct of d; f, musculo-cutaneous layer; g, mesenterium of the intestine. About 18 days old.
- Fig. 5. Surface view of the anterior end of the chords dorsalis; a, cell in profile; fig. 5a, surface view near the posterior end; a, cell in profile; fig. 5b, middle region; a, view of the surface; b, of the interior; 500 diam.; fig.