e', and f', over its expansion; g, a branch of the vestibule cut across; h, h', the cartilaginous cranium; i, tympanic cavity; k, pia mater; k, bloodvessels from k plunging into the mass of the brain; I, dura mater; m, vessels of the median sinus; n, fibrous membrane of the palate; n', lateral sinus of the fibro-muscular membrane of the mouth; o, windpipe; p, os hyoides; q, muscular bundles; r, adductor muscles of the neck; r', muscles of the lower jaw; s, bloodvessels cut across; t, dense white fibrous corium; u, opidermis very much wrinkled.

Fig. 8; compare wood-cut 8, p. 577. Transverse section through the hemispheres, the optic lobe, and the lower jaw, just behind the opening of the windpipe; 5 diam. Corresponds to the line C, in w-c. 3, p. 576; compare also fig. 4. View from before, looking backwards; a, left hemisphere, the rudimentary corpus striatum lies at the point where the letter is placed; a", crura cerebri; b. b'. interior face of the hemispheres; b is partly cut away to expose the bloodvessel (c') going to the choroid plexus, (d,) which enters by the foramen at this point; c, bloodvessel which enters at c'; d, choroid plexus; e, third ventricle in the distance; f, f', optic lobes; g, inferior commissure of f and f; h, parietal bone of the skull; h', frontal bone; i, sphenoid bone; j, cavity of the mouth; k, fibro-muscular layer of the floor of the mouth; k. roof of the mouth; l, windpipe; m, middle part of the hyoid bone; n, bloodvessels; o, muscular bundles; p, p', p'', three parts of the lower jaw, p still cartilaginous, the two others quite gritty with lime; q, fibrous corium.

Fig. 9; compare wood-cut 9, p. 577. The same section as fig. 8, looking forward on the opposite side of the cut toward the olfactory lobes; 5 diam.; b", open communication between the hemispheres; d", narrow passage in the olfactory lobe in the distance; e', anterior commissure of the optic lobes. The other letters as in fig. 8.

Fig. 10; compare wood-cut 10, p. 577. Transverse section through the auterior end of the olfactory lobe and a portion of the surrounding tissues, seen from behind; 15 diam. Corresponds to the line B, in w-c. 3, p. 676; compare also fig. 4: a, the right olfactory lobe, marked by concentric layers of alternately white and gray substance, the white being much thicker than the gray; b, ventricle in the contre of the lobe; c, the vascular pia mater; d, arachnoid membrane, or network of vessels connecting the pia mater (c) to the dura mater (d'); e, interorbital septum; f, frontal bone; g, fibrous corium; h, layer of pigment under i; i, the epidermis.

Fig. 11; compare wood-cut 11, p. 557. Transverse section through the nasal cavity, seen from behind; 5 diam. Corresponds to the line A, in w-c. 3, p. 576; compare also | Fig. 2. Lungs and stomach, from below, about 5 diam.; laid

fig. 4: a, right Schneiderian membrane; that part which is below the palate bone (f) is not seen in the longitudinal section, (fig. 4,) which is made through the middle line of the head; b, septum narium; U, the irregular dotted line next to a indicates a dense layer of black pigment; c, frontal bone; d, ethmoid; d', upper edge of the intermaxillary bone, os incisivum; e, corium; f, vomer; g, palate; h, inner edge of the horny layer of the mandible, where it meets the mucous membrane (i) of the palate (7).

PLATE XXIV.

[Fig. 7, 7a, 0, 0a, 15, from nature, by A. Sonrel; the others by H. J. Clark.

Fig. 8 and 14 are from Nanemys guttata; the others from Chelydra serpentina.

Fig. 1, 1a, 2, 2a, 3, 3a, 4, 5, 7, 7a, 8, 9, 9a, 11, 12, 13, 13a, 14, 15, are all lettered in the same manner: a, amnios; at, caudal hood; e, edge of the channel of the spinal marrow; e2, edge of the open part of the brain; e3, brain closed over; es, constriction between the corpora quadrigemina and the optic lobes; f; vertebræ; f', vertebral layer; f1, lower edge of f; f1, lower edge of f1; f1. upper edge of f; h', nortic bulb; h', nuricle; h', ventricle; i, vena afferens; i, abdominal veins; i, cophalic veins; j, cephalic artery; J, dorsal artery; k, the whole eye, or the outer layer of the retina; &, the inner infolded layer; La, passage to the brain; La, erystalline lens; La, point where the inner wall (k1) folds upon the outer (k); l, car; m, branchial fissures; n, intestino-subsidiary layer; n2, stomach; n4, œsophagus; n4, anus; n4, allantois; o, edge of the abdominal aperture; p, musculo-cutaneous layer; r, liver; t, windpipe; t', lungs; v, nostrils; w. fore legs; w, hind legs; x, mouth; 1, outer wall of the lungs; 1', outer wall of the esophagus behind the lungs; 1", outer wall of the asophagus before the lungs; 1", outer wall of the windpipe; 2, mucous membrane of the lungs; 2', mucous membrane of the esophagus behind the lungs; 2", mucous membrane of the esophagus before the lungs; 2", mucous membrane of the windpipe; 3, opening of the windpipe; 5, open communication between the windpipe and the esophagus; 6, part of the trachea of the right lung; 7, a bronchiole trending transversely to the broad face of the lung-

Fig. 1. The lungs, and part of the esophagus, from below, 40 diam., date not ascertained; fig. 1a, interior walls of fig. 1; 250 dinm.