

Aug. 16.—The younger (No. 2.) moulted. There is a marked difference in the coloring of the two examples. This one has the yellow spots circular in outline, and quite insulated, centrally, on the black bands; but No. 1 has the spots of oblong shape, and placed *upon the front edge* of the black bands, interrupting it.

Aug. 21.—In Peters' garden I found, on the parsnip leaves, two more Swallowtail caterpillars, larger than my largest (Nos. 3 and 4).

Aug. 22.—My No. 1 is hanging, back downward, from the roof of its cage, a silken band round its body, and its tail fastened to a knob of white silk. In the evening No. 3 suspends itself in like manner.

Aug. 23.—This morning I was so fortunate as to see the process of No. 4 putting the already spun silken girth over his head, and adjusting it around his shoulders.

Aug. 24.—No. 1 went into chrysalis during the forenoon. It is large and rough of surface, of a yellowish pink hue, green in some parts, marked with a broad streak of sooty brown down the back, and one down each side of the abdomen.

Aug. 25.—This morning I saw that No. 3 had already become a chrysalis. About 5 p. m., I witnessed, with great pleasure, the whole process of the evolution of another chrysalis, my No. 4—the one whom I had seen put on his necktie. This caterpillar appearing uneasy and restless, I watched it at intervals for about half an hour; when, by strong and apparently painful distension of the part, a slit was made in the skin, down the back of the third ring. Through this the soft chrysalis forced itself, gradually extending the slit *upwards*, till the head was divided and separated; and also *downwards*, for several rings' length. The skin was now gradually pushed down. I had been curious to see how the creature would get through this part of the business, for its weight pressed the silken girth very tight around the body. There seemed, however, no real difficulty; I thought it kept itself, by muscular effort, from pressing its whole weight on the girth until the skin had passed the part. As soon as it was pushed down to the extremity, the tail of the chrysalis was thrust out beneath, very cleverly, and pushed upward to take hold of the little knob of silk. When this was done, the old wrinkled skin was jerked off, and cast away, by the writhing of the pupa. The silken girth was now encircling the body, between the sixth and seventh rings; but the chrysalis twisted and turned, till it got the girth three rings nearer the head, namely,