When we view the various depositions from the earliest discoverable period to the newest, we find in them such differences, as shew that the contents of the water of the globe must have changed by degrees, and that all its depositions form beautiful and connected series. The oldest rocks, which are pure chemical precipitates, are composed principally of siliceous, argillaceous and magnesian earths. The rocks, as Granite, Gneiss, and Micasslate, contain metals that are of cotemporaneous formation with them, and that scarcely occur in newer periods; these are Tin, Molybdena, and Tungsten.

This state of the water of the globe, however, alters gradually and remarkably, as we approach the newer periods, by the appearance of Limestone in quantity, Coal, and Salt, and the disappearance of old and the appearance of new metals. Besides this general fuccession, (which will afterwards be particularly confidered), discoverable in the productions of different periods, we have instances of the repetition of certain products at confiderable intervals, and in formations of different æras and kind. In a feries of this kind, all the members have general characters of agreement, and the individual members bear characters expressive, not only of the period of their formation, but also of the circumstances under which they were formed. Such a series, as we have already mentioned, is denominated a Principal Formation Suite, or Series