

may enable the reader to understand the remarks to be afterward made upon the constitution of land and water :—

1. Oxygen	19. Vanadium	37. Manganese
2. Chlorine	20. Molybdænum	38. Nickel
3. Bromine	21. Tungsten	39. Cobalt
4. Iodine	22. Titanium	40. Cerium
5. Fluorine	23. Columbium	41. Zinc
6. Hydrogen	24. Potassium	42. Cadmium
7. Carbon	25. Sodium	43. Lead
8. Nitrogen	26. Lithium	44. Tin
9. Boron	27. Calcium	45. Bismuth
10. Silicon	28. Magnesium	46. Copper
11. Phosphorus	29. Strontium	47. Mercury
12. Sulphur	30. Barium	48. Silver
13. Silenium	31. Aluminium	49. Gold
14. Arsenic	32. Glucinium	50. Platinum
15. Antimony	33. Yttrium	51. Palladium
16. Tellurium	34. Zirconium	52. Rhodium
17. Chromium	35. Thorium	53. Iridium
18. Uranium	36. Iron	54. Osmium.

Oxygen is a gaseous substance, and exists in great abundance in nature, combining more or less readily with all substances; forming, according to the quantities in which it chymically combines, oxydes of those bodies and acids. It enters into the composition of both air and water, is the best supporter of combustion, and is essential to the existence of both animals and vegetables. As it unites with so many substances, it may be obtained from several sources, but it is usually procured from the peroxyde of manganese.

Chlorine is a gas, but it never occurs in this state in nature; but in combination with some metal or other substance, from which it may be abstracted by a chymical process. When it combines with sodium, of which metal soda is an oxyde, it forms the common seasalt, or chloride of sodium, and from this it may be abundantly collected. It has a yellowish green colour, an astringent taste, and is destructive to human life, producing a violent spasm of the glottis.

Bromine and iodine are both found in combination with other bodies, most frequently in seawater, and in small quantities. Iodine is the more important of the two, forms several compounds, and is useful in medicine and the arts.

Fluorine is a principle found to exist in the mineral called fluor spar. It has not yet been obtained in a perfectly pure