

*radiation*; and again, by the same process, it is freely sent off from the surface of the earth into the atmosphere. Below the surface of the earth, heat is propagated in all directions through the *solid* matter, by what is called *conduction*. A third mode in which this important agent is extensively propagated in nature, is by the means we have termed *convection*, or the *carrying* process. Convection is confined, of course, to fluids, as water and air. A portion of water or of air being heated above, or cooled below the surrounding portions, expands or contracts in magnitude, and thus becoming specifically lighter or heavier, rises or sinks accordingly; carrying with it, the newly acquired temperature, whatever that temperature may be.

Light, at present, is only known to be propagated by radiation.

By bearing in mind these modes of the propagation of heat and light; the general reader will find no difficulty in understanding what follows.