

searches and discoveries of Galileo, Des Cartes, Bacon, and Newton have moulded the whole of our modern thought.

There is no other course of study that gives better training to the observation than the study of science. The mind of the student is brought into immediate contact with facts. Direct appeal is made to nature, and through his senses he gains that practical education which fits him for active life. Do you study chemistry? Do not overlook the minor fact that though marsh gas is combustible a white heat is required to ignite it. It was the application of this principle which enabled Sir Humphrey Davy to invent his "safety lamp," whereby thousands of human lives have since been saved. Are you a mineralogist? Carefully notice, then, the rich living colors which chase each other along the surface of the tablet. These hues, unrivalled except by the blush of the rose or the glory of the rainbow, reveal to us treasures long hidden, and but recently brought to light. Do you scan the wonders of the infinitesimal through your microscope? Do not forget that you are dealing with a power which, directed by close observation, can ward off disease and death. Do you soar from world to world with your telescope? Remember that the accuracy of the knowledge you acquire is dependent entirely on the care with which you observe. Your minutest errors will be magnified a thousand-fold, and will lead you far, amazingly far, from the truth. The meteorologist builds up his whole scientific structure by carefully noting the phenomena of the atmosphere. The geologist teaches us the botany, zoology and anthropology of past ages by closely observing the buried records of antiquity.

The study of science also educates our reasoning powers. The facts observed are transferred to the domain of mind. Here they are examined and compared until a casual connection is found between them. This is the last act of the mind in its progress from the multiplicity of facts to the central cause on which they depend. In other words, it completes the operation of inductive reasoning. But our minds do not rest contented