

improvement, not always speedy in expansion, and which has neither beginning, proceeding, nor ending without the concurrence of the individual mind, for whose benefit it is proposed. Books of voyages and travels are eminently qualified to give a start. Enumerating scenes alike wonderful and curious, describing phenomena both of land and sea, and revealing the manners and customs of men belonging to other regions, they cannot fail to awaken powerfully the sleeping curiosity. The portfolio of the tourist thus becomes a flowery path, leading the passenger therein to an enchanted palace, in which he is both enraptured and instructed. To conclude this paragraph, it may be said that whether a man be endued with great observing powers or with diminutive, reading will increase their ability. Indeed, there are many things which we should pass by unnoticed, were it not for the wondrous revelations of the chemist and geologist. As it is, chemistry and geology continually ferret from apparent masses of worthlessness, what prove to be of invaluable worth in almost every branch of manufacture. By reading we find these things out, and are induced to analyse more minutely surrounding matter.

The other elements of character mentioned as necessary to success, viz., promptitude of action, determined executiveness, and undaunted boldness of spirit—must be acquired in youth. A crooked tree cannot be made straight; a twig is bent as you would have it grow. Now, as reading is the most popular, and, indeed, one of the most efficient agents of education, the culpable conduct of many parents and tutors in permitting their charges to follow the course of their own inclinations in the choice of literature, is inexcusable. Certainly, fairy tales, ghost stories, and love, blood and murder romances are none of them the best calculated to inspire with high and lofty purposes, courage of action, and successful execution of plans. Remember children have their schemes as have grown up folk, and as these schemes are carried out in childhood, so will the enterprizes of manhood commence and finish. Endeavour to cultivate in the family a love for history and biography. In particular, would we recommend to the workshop apprentice "industrial biographies," comprising the memoirs of men who have risen from obscurity to the height of eminence, through diligent painstaking in improving their minds, and determined manly zeal in the prosecution of all their projects. James Watt, the inventor of the steam-engine, Arkwright, the constructor of the spinning-jenny, and George Stephenson, the originator of steam

locomotion by rail, are men of this stamp. In their careers, we perceive the fortitude of the arctic navigator, although not in the endurance of the frigid temperature of the northern zone, yet the equally piercing frost of poverty. The impulsive ardour of the private soldier was also displayed, as well as the far-seeing penetration of the commander; not in the arts of war, but in the more honourable avocations of peace. And they, with multitudes besides whose names create sensations of respect when mentioned, have won for themselves richer laurels than a Napoleon, and gained for themselves seats in the chambers of fame, elevated as those occupied by the most skillful statesmen.

In conclusion, we ask of our youthful readers a thoughtful meditation on the scattered thoughts presented, earnestly urging them to economise their time, without robbing themselves of healthy and essential recreation—by having a well-arranged plan of reading, such a plan as will most surely promise the attainment of the proper objects for which books ought to be printed and read.

Board of Arts and Manufactures

FOR UPPER CANADA.

THE FOURTH VOLUME OF THE JOURNAL.

This number completes the fourth volume of the journal. Many of our subscribers are in arrear, not only for the present, but for the past year. The smallness of the subscription charged, renders it of importance that prompt payment should be made, in order to enable the Board to meet its engagements. It is particularly requested that all arrears due, and also subscriptions for the new volume, be at once remitted to the Secretary, either in postage stamps or otherwise.

As to the Journal itself, with the valuable selections from British and Foreign publications of articles and memoranda on *practical* subjects, which each number contains, we frequently receive from its readers and from the press, the warmest commendations.

All persons engaged or interested in industrial pursuits, and who can recognise the advantages which a Journal of this character is capable of conferring, are invited to contribute any information or suggestions calculated to be of benefit to others similarly engaged, or of general advantage to the public.

Descriptions of new inventions or improvements, and wood-cut illustrations of the same, whenever furnished, and suitable for its pages, will be cheer-