

you have thoroughly learned botany and searched out all its laws, and perhaps all botanical creation, so as to perfectly understand the nature and uses of the great variety of roots, trees, barks, and herbs, you have become familiar with only one branch of the works or laws of our God.

When you are master of all the knowledge there is in books about chemistry, and have arranged the chemical affinity of the various gases, and their uses, what have you found out? You have only found out another branch of the great works of God.

We have mentioned only two branches of the great works of our God, pertaining to which we can acquire knowledge and understanding. We might refer to many others, viz., astronomy, geology, mineralogy and metallurgy, all of which would be useful in our works and discoveries.

Indeed, had it not been for the discoveries in those sciences, civilization would never have risen to its present state in the world, we should not have been blessed with many of the luxuries of life that we now enjoy. And these are only a few of the various branches of His works, out of the number of what are generally termed sciences.

We might go on and enumerate many arts and sciences by which mankind are benefited, especially in machinery and the laws of evolution, explaining and defining what machinery will do and what it will not do.

How many hundred years have been spent by numerous individuals, in order to discover perpetual motion, whereas fifteen minutes labor, with a knowledge of the science of mathematics, would enable a man to demonstrate that it is an impossibility for us to form a machine that when set in motion will supply its own motive power, and not stop until it is worn out. Mathematics would have shown

those persons that they were in search of theories and principles which could not be found out.

Again, alchemists tried for generations to transmute the coarser materials into gold, and hundreds of individuals have spent all their time in the pursuit of that vain phantom, when with a knowledge of the chemical properties already sought out, no one would ever think of accomplishing transmutation.

We as a people, with the privileges that we have, the opportunity of being in these valleys where the world and the enemies of this people do not tyrannize over us, I do verily believe, have not lived as faithfully as we ought, have not lived in proportion to the knowledge we have in our possession. In this respect many of the youths in our Territory are not trying to improve their minds in a way that will render them the most useful to themselves and to others.

I will say to numbers of the youth, your time is spent in frivolity; year after year is spent in this manner by many of the young men in this Territory. If we were being driven from city to city, and had not the opportunity of getting good, competent schoolmasters, those circumstances would be a good excuse.

But having been here a sufficient length of time to build houses, to establish ourselves in peace in the midst of plenty, flourishing upon the mountains, in the valleys, and upon the hills, with all these blessings is it not a shame that we should let so much precious time pass away without being more wisely improved?

When I have had a good exercise in dancing, I take hold of my books and business, and think no more of dancing until I have a seasonable opportunity of going forth in the dance again.

I mention these things that parents may take hold of them, that they may