

reason *only*, do not complain if you find it dull, and dry, and hard to master. You may learn a great deal that is useful, and nature will answer you truthfully if you ask your questions accurately, but she will give you dry facts, just such as you ask for. If you do not love her for herself she will never take you to her heart.

This is the reason why so many complain that science is dry and uninteresting. They forget that though it is necessary to learn accurately, for so only we can arrive at truth, it is equally necessary to love knowledge and make it lovely to those who learn, and to do this we must get at the spirit which lies under the facts. What child which loves its mother's face is content to know only that she has brown eyes, a straight nose, a small mouth, and hair arranged in such and such a manner? No, it knows that its mother has the sweetest smile of any woman living; that her eyes are loving, her kiss is sweet, and that when she looks grave, then something is wrong which must be put right. And it is in this way that those who wish to enjoy the fairy-land of science must love nature.

It is well to know that when a piece of potassium is thrown on water the change which takes place is expressed by the formula $K + H_2O = KHO + H$. But it is better still to have a mental picture of the tiny atoms clasping each other, and mingling so as to make a new substance, and to feel how wonderful are the many changing forms of nature. It is useful to be able to classify a flower and to know that the buttercup belongs to the Family Ranunculaceæ, with