

## MANUAL TRAINING. Its Relation to Art.

Address Read by J. H. Tipton, Instructor of Manual Training at U. of U., Before the Arts and Crafts Section of the Utah Teachers' Association at the October Meeting.

The term Manual Training is applied to all handwork used for educational purposes. Manual training embraces work in paper, cardboard, leather, raffia, rattan, clay, iron, and wood. Sloyd, which is work in wood, is the most prominent feature of manual training. It has been found that of all the materials used wood best satisfies the educational demands. In a liberal scheme of manual training various materials should be used, for no one material combines all the qualities necessary to the education of the pupil in every stage of development. The material used should be adapted to the work in hand, and the work should be suited to the child.

Manual training has for its primary aim the development of the motor side of the child. It has been ascertained physiologically that no perfect sensory development can take place without a proper exercise and use of the motor side of the individual. And that the child who uses his hands develops faster and better than one who does not. Certain regions of the brain depend for their development upon muscular movement, and if these movements are never made those parts of the brain will be left undeveloped.

Further the natural tendency of the child demands that handwork be given it. The child delights to examine things, to take them apart, to try to make them; to meet this inborn craving, manual training binds its influence. Too often this tendency when neglected gives rise to what we call mischief. And above all our world is largely a world of machinery, we handle wheels, motors, engines and a thousand and one mechanical contrivances. We live in a mechanical, constructive environment. Education should fit the child to live in this environment. Students may be well versed in the dead languages, in the lore of ancient nations, but they must assuredly be familiar with the language and the lore of the present—constructiveness.

Manual training teaches the pupil to use his hands and to some extent makes him skillful. The skill engendered is rather that of getting used to oneself than skill in the use of tools, although the latter is not neglected.

As a matter of discipline the child is better served by doing the concrete work of manual training than by working in the abstract subjects. The subject of manual training has been growing for some time. When it was first introduced into the schools it consisted mostly of set exercises, so many exercises to each model, and so many models to a course. The models were made year after year by the pupils. Each model was made to the exact size, and the shape was rigidly fixed. Many thought that manual training meant mere doing in working in the concrete without any consideration of the good form and proportion. After several years of this kind of work educa-

tors began to see that this was mere formalism, they began to see that something else was needed. Art was then introduced into the work of manual training. And although art has been applied with manual training for but a few years, yet during the short time a wonderful change for the better has been wrought so that now in the best practice we do not have sloyd alone, but sloyd modified by art. With the addition of art manual training has become a more powerful factor in education. The expression of beauty in the application of form, line and color to produce useful objects is an important function of manual training. These objects may be made in wood, iron, leather and other materials by means of weaving, basketry, wood carving and work in bent iron. In manual training work there should be discipline, skill in its production, artistic ideas should be engendered, industrial education acquired, and such general training given as will be useful to the pupil in any walk of life. Nothing should be taught that will have to be unlearned, whether it be the driving of a nail, or the fixing of a habit.

The word art has been so frequently used to designate picture making that whenever we hear the word we think of pictorial art only. Perhaps of all the forms of art pictorial is the least useful, yet by some considered the most essential. From the manual training standpoint pictorial art is of little value. Morris says: "Beauty, which is what is meant by art, using that term in its widest sense is, I contend, no mere accident to human life, which people can take or leave as they choose, but a positive necessity of life, if we are to live as nature meant us to."

Drawing, freehand and mechanical, practical design, applied design, and color harmony are divisions of art that directly concern manual training. Of what use is drawing to a child? Drawing teaches him to see accurately. It teaches him form and serves to fix on his mind a clear image of the object. Now if we go a step further and have the child make that which he has drawn, the educational value will be higher.

After the making of the object he will know it. Know it in a way that it would be impossible to know without the actual making. The act of making is the surest way of knowing. We never know an object until we have made it.

Art should be taught as applied art, not as pictorial art only. The teaching of drawing often becomes an abstraction. Drawing to be real must be followed by construction.

If children cannot, through lack of strength or lack of skill, make acceptable objects in wood then they should work out their ideas in material that is easier to handle and which does not require much tool skill, such as raffia, paper, clay, etc. Every piece of work put before a child as a model should be perfect not only from the mechanical side but from the art side also. Children should be taught to make

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HAS AN INDIVIDUALITY  
A SPICY PUNGENT FRAGRANCE  
A NOVEL INVITING FRESHNESS

These it took from the sunshine and soil of the celebrated district where grown. Has never been spoiled by handling.

Is clean pure tea 250 Cups to a Pound in Packages of 4 Ounces

beautiful objects. Not that I mean that the objects must be complicated, highly decorated and fancifully ornamented, but that the objects should be simple in design, exhibiting strength of construction and skillfulness of workmanship.

Far better for educational purposes is that a pupil can design and make a simple penholder, thoroughly understanding the principles of its construction, than to cobble some wood together into an unsightly mass. Children should be given work adapted to their capacity, something simple, something that they can do well. To guide the child in the selection of work adapted to it is a function of the teacher. All the work of the pupil should be artistic, simple, strong, useful and beautiful. No work should be done simply for its decorative value. Morris says: "Beauty, which is what is meant by art, using that term in its widest sense is, I contend, no mere accident to human life, which people can take or leave as they choose, but a positive necessity of life, if we are to live as nature meant us to."

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### BUILT ON ROOSEVELT PLAN.



PAUL CLAUDE and FAMILY of WOODSTOCK, IOWA.

The above group shows Mr. and Mrs. Paul Claude of Woodstock, Ia., and their 17 hale and hearty children, the eldest of which is only 17 years of age. The family lives on a large farm near Woodstock on the great Iowa prairie.

## Let us Pay

For a 50c. Bottle of Liquezone, to Show You What it is.

If you suffer from a germ trouble, let us buy a bottle of Liquezone and give it to you to try. It is liquid oxygen—the best thing in the world for you. And in germ diseases it does what all medical skill cannot do without it.

We had faith enough in it to pay \$100,000 for the simple right to make it. We know its results so well that we will gladly pay for your test. Won't you, if you need it in simple fairness to yourself—have faith enough to send us this coupon?

### Just Oxygen.

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Liquezone is simply liquid oxygen—no drugs, no alcohol in it. It is the discovery of Paul, the great German chemist, who spent 20 years on it. His object was to get such an excess of oxygen in staple form into the blood that no germ could live in any membrane or tissue.

Oxygen is life to an animal—the very source of vitality. We would die in three minutes without it. In this liquid form its effects are exhilarating, purifying, vitalizing. But germs are vegetables, and this excess of oxygen is deadly to vegetable matter.

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on every bottle of Liquezone for a germ that it cannot kill. And there is no other way to kill germs in the body without

killing the tissues, too. Any germ-killing drug is a poison to you, and it cannot be taken internally. Medicine never destroys inside germs.

We spend 14 days in making each bottle of Liquezone, yet we offer you the first bottle free. And we supply it to physicians and hospitals everywhere at almost cost. In this fair way we are trying to introduce this product to everyone who needs it. If you will be as fair with yourself, we will gladly show you how any germ disease can be cured.

Fever—Flu—Stomach—Gout—Tumors—Ulcers—Gonorrhea—Gleet—Women's Diseases—All catarrhs—all contagious diseases—all results of impure or poisoned blood. Liquezone acts as a vitalizer, accomplishing what no drugs can do.

50c. Bottle Free.

If you need Liquezone, and have never tried it, please send us this coupon. We will then mail you an order on your local druggist for a full-size bottle, and we will pay your druggist ourselves for it. This is our free gift, made to convince you to show you what Liquezone is, and what it can do. In justice to yourself, please accept it to-day, for it places you under no obligation whatever.

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My disease is \_\_\_\_\_ I have never tried Liquezone, but if you will supply me a 50c. bottle free I will take it. \_\_\_\_\_ Give full address—write clearly.

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and forms of the object. The inventive efforts of all nations have sprung from the needs and laws of structure. Yet a gap has formed between art and structure. From the writings on art a person would be led to think that the painting of landscapes, and the study of the human form comprised the greater part of the work of the artist. But in fact, the artist is practically useless to us. The teacher of manual training has no use for those hazy, indistinct drawings which often pass for work of art. And the teacher of art is disturbed by the mechanical precision and stiffness of the work of manual training. From the art teacher we should have heard about art for art's sake. And from the manual training teacher less about set exercises and more about those objects which will fill a need in the life of the child. We should recognize the fact that each is helpful to the other, that very largely each is dependent on the other, and that each does contribute to the rounding out of the child's training, and art is its very life.

### CLIMBING THE ALPS BY RAIL.

(Continued from page Eleven.)

ble disaster. The passenger cars are pushed, not pulled, and are built for 40 passengers. Each train consists of a locomotive and one car, but at times of exceptional traffic another car may be added.

### BOREING TUNNEL.

Not only is electrical energy used for traction purposes, but also for lighting and heating the stations and for working the rock drills in the tunnels. The electric drills can bore a hole three feet deep in 10 minutes. Into these holes granite cartridges are dropped, and the workers hurry out of the tunnel and down the side of the hill, and the explosive is touched off by means of a fuse. As the removal of the rock which has been blasted takes considerable time, the mines are fired only three or four times a day. The daily advance is about 13 feet. It will be seen that the completed road must be the work of years. The tunnel will be throughout 13 feet in height and 11 feet in width. Electricity is also used in the assistance of the workers. With its assistance ice and snow are melted, food is cooked and the workmen's huts are warmed. The time will come when the electric drills will be used for the electrical conductors connected with a telephone will be their only means of communicating with the lower world.

### SEARCHLIGHTS ON SUMMIT.

A still larger generating station than that in the Lauterbrunnen valley will be built in the valley of Grindelwald, and both together will produce power sufficient not only for all the needs of the road, but also for making the most brilliant lighting effects. Two great searchlights of enormous power will be placed upon the Jungfrau summit. One of these will be used to bring out the spectacular effect of the mountain scenes, while the other will act as a sort of lighthouse visible from the cathedrals in Strassburg and Milan.

### FIVE STATIONS.

The Jungfrau railroad begins at Scheidegg, 6,770 feet above the sea. This point is reached by the Wengern Alp road and the partially completed Jungfrau are stupendous. What then will be the sensations of the traveler who makes the whole ascent by rail? It is worth while to make the ascent by railroad to Eigerwand, the highest point reached so far. The views along the Wengern Alp road and the partially completed Jungfrau are stupendous. What then will be the sensations of the traveler who makes the whole ascent by rail? It is worth while to make the ascent by railroad to Eigerwand, the highest point reached so far. The views along the Wengern Alp road and the partially completed Jungfrau are stupendous. What then will be the sensations of the traveler who makes the whole ascent by rail? It is worth while to make the ascent by railroad to Eigerwand, the highest point reached so far. The views along the Wengern Alp road and the partially completed Jungfrau are stupendous. 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