

# MANUAL TRAINING AND ITS USES IN SCHOOLS

In view of the fact that Supt. Powers contemplates inaugurating manual training in the Salem schools the following story from the pen of J. H. Brown on what the course has done for Olympia, Washington, schools, is printed:

Olympia's experience with manual training may well be of interest to any town contemplating introducing that branch into its schools. General sentiment was against it before it was started there. Now everybody favors it. The boys have not only saved hundreds of dollars actual money for the district by manufacturing desks and other furniture but have also, by working odd hours, made several hundred dollars for themselves. The work has been a pronounced success in every way.

The schools of Olympia have a motto they are apparently doing their best to live up to. That motto is "Made in our own shop." In the assembly hall can be seen an artistic piano bench, a wall clock, and on the walls several large and beautiful Turner prints, framed in a novel and artistic way, all done by boys of the high school in the shop. The science rooms are being equipped with tables, cabinets and other necessary apparatus, which entered the shop as hardware and rough lumber.

Down in the domestic science room a class of 15 or 20 girls with white caps and aprons, is learning the art and science of home-making, and using tables, lockers, cabinets—made in the high school shop. More surprising still, the hot water and gas plant was installed by the boys themselves without any assistance of plumber or steam fitter.

### Can't Keep the Boys Away.

The shop itself is a veritable hive of industry and is one of the most interesting places in Olympia. No eight-hour law prevails here. Work goes on Saturdays as busily as on school days, and the instructors are satisfied if they can, by locking the doors, keep the boys out on Sundays. But the interest is not confined to the boys. Many of the city teachers spend their spare time in making linen chests, Morris chairs, tabourets, and plate racks. The citizens of the town are equally interested, and only the congested condition of the shop makes it impossible to hold a Saturday or evening class of "grandpas." Numerous applications have been received from the professional and business men of the town for permission to work in the shop, and it is very probable that in the near future arrangements will be made so that such conditions can be granted.

The department has been running for some six months and in that time hundreds of people have visited it. A great number of out-of-town people, including educators from various parts of the northwest, and a great number of traveling men have inspected the work, and all have pronounced it the finest thing of its kind in results they had ever seen.

### Buying Initial Equipment.

During the summer the boys placed an order for about \$3000 worth of tools, \$150 for kitchen utensils, \$400 for a gas plant and \$120 for lumber. Alterations in the basement of the new high school had been placed on top of the cement, making at once a warm and damp-proof floor.

School opened in September with two well-lighted and ventilated rooms, but both utterly bare as to furnishing and equipment. A week or two later the tools and lumber arrived. The girls started at once on their sewing, to which they devoted the first semester. The boys began to build a shop. The equipment to start with was a good set of tools, a pile of lumber an efficient and enthusiastic instructor, plenty of boys and "elbow grease." The first few days were given to making sawhorses from rough lumber. With these noble animals to work on, the boys began to construct the work benches. At the end of six weeks two dozen excellent

benches had been constructed at the cost of \$2.50 each. These benches are equal in every respect to those that other cities have paid \$7 and \$8 for.

With these benches to work on progress was much more rapid and then began the construction of drawing stands, science tables, cabinets. The domestic science tables were built, hot water and gas plant installed, and the work of framing some 50 pictures was begun. From last September to the present time the shop has been running afternoons, evenings and Saturdays. In this overtime the boys have made a great many useful and ornamental articles for themselves and friends. Interest in the work has increased until it has become the pride of Olympia. The work has been taken seriously and everything turned out from the shop has been in the line of well-made articles, fully equal to anything that could be purchased from the stores. One of the lawyers of Olympia ordered part of the furnishings of his new office from the boys. The law library of the state of Washington recently ordered a quarter-sawn oak table from the shop. A table worth at least \$40 and equal to a Roycroft table in design and workmanship was built by one of the boys in a few days. These are only instances to illustrate the high grade of work turned out by the shop.

### The Industrial Course.

The work in drawing, domestic science and manual training includes the seventh and eighth grades and the high school. It is compulsory in the grades and optional in the high school. Altogether about 100 boys and 125 girls are taking courses. The high school is used as a grade center and the grade pupils come in once a week for an hour and a half work. The work in the high schools consists of five periods of an hour and a half each week. In domestic science two periods are devoted to designing and drawing, one to sewing, and two to cooking. The boys are given two periods of mechanical drawing and three periods of shop work a week. It is aimed as much as possible to make the drawing help out the other courses. Drawing for the girls is designed to cultivate appreciation and taste. The work is very closely connected with domestic science. In the boys' work the connection is still closer. The boy who wants to make a table, for instance, is first required to make a free hand sketch of it, then a mechanical or plan drawing, and if these are satisfactory he is then allowed to start work in the shop.

### No Work Thrown Away.

No boards are planed for the sake of planing and no joints are made for the joints' sake. It is perhaps to this as much as to anything else that the success of the work is due. The average boy who cares nothing for a mortise and tenon cross lap joint as a joint, will work for days in order to make the fittings of joints for a Morris chair or bookcase as nearly perfect as possible.

### Financial Side of It.

The expense of equipment in the manual training department in the Olympia high school has been under \$500, while the total expenditures of the year, exclusive of the instructor's salary, will amount to about \$750. The most important items are: Tools, \$350; motor, shafting and emery wheel, \$75; lumber, about \$250; hardware and other supplies, about \$55. The cost of equipping the domestic science department was about \$700, of which about \$400 was expended in a gas plant, \$100 for kitchen utensils, \$40 for a hot-water plant, and about \$75 for hardware and gas fittings. The ranges were given by Olympia hardware men and the rest of the equipment was built by the boys at no expense, since the lumber was included in the manual training bill. The cost of the supplies for the cooking plant for the year will be less than \$150. The cost of the gas plant should not be entirely charged to the domestic science department, as gas will be used for chemistry, physics and manual training later. About \$50 has been spent for overtime student work in both departments.

### Total Cost of Industrial

Equipment	\$1200.00
Running expenses	500.00
Teachers' salaries	1600.00
<b>Total</b>	<b>\$3300.00</b>

### Average Cost Much Less.

Although a large part of the equipment will last for 15 or 20 years if everything had to be renewed at the end of five years, the

## MISS ANNIE CATRON.



### CATARRH MADE LIFE A BURDEN TO ME.

MISS ANNIE CATRON, 927 Main St., Cincinnati, Ohio, writes: "As I have found Peruna a blessing for a severe case of catarrh of the head and throat which I suffered from for a number of years, I am only too pleased to give it my personal endorsement."

"Catarrh, such as I suffered from, made life a burden to me, my breath was offensive, stomach bad, and my head stopped up so that I was usually troubled with a headache, and although I tried many so-called remedies, nothing gave me permanent relief. I was rather discouraged with all medicines when Peruna was suggested to me."

"However, I did buy a bottle, and before that was finished there was a marked change in my condition. Much encouraged I kept on until I was completely cured in a month's time, and I find that my general health is also excellent."

People who prefer solid medicines should try Peruna tablets. Each tablet represents one average dose of Peruna. Man-a-lin the Ideal Laxative.

part of the original expense charged to this year's expense would be one-fifth of \$1200, which would be \$240	
One-fifth of cost of equipment, \$1200	\$240.00
Running expenses	500.00
Teachers' salaries	1600.00
<b>Total</b>	<b>\$2340.00</b>

### Where Returns Come In.

On the other hand the value of the work done by the students for the first seven months is almost equal to the expenditures for the year. In addition to the amount saved by the school board directly, the people of Olympia have been benefited to the amount of nearly \$700. Writing desks, tabourets, Morris chairs, book cases, library tables, glove-boxes, music cabinets, clocks, wheel barrows and innumerable other articles have been made by the students and teachers for their relatives, selves and friends. Boys and teachers are allowed to take any article home on payment of actual cost of material. The cost of the material in such articles, has amounted to about \$100, while the value of the articles estimated from the prices received from a great number of them amounts to over \$700. Over \$600 has been saved in this way. If to this is added the amount saved by the school board, it will be seen that before the end of the year the department will have paid for itself.

### Other Direct Benefits.

Great as has been the financial value of the articles made in the shop, it is very small in comparison with the social, educational and moral values derived. There has been an increased and more regular attendance in the upper grades. This year three teachers are required to take care of the eighth grade, while only three are needed for the second. The school enrollment has increased over 10 per cent, and this is largely in the upper grades. The attendance, too, is far better than ever before, while the interest in school work is greatly increased. Many boys who were contemplating dropping out are now enthusiastic students. Olympia has 650 boys and 640 girls enrolled.

Socially, too, the industrial work has been of great value. The school has greatly increased as a center of pupils' interest. The parents and grownup brothers and sisters at home are as much interested as the boys and girls at school. Girls who never before took any interest in domestic work at home are glad and proud to do so. Down in the shop may often be seen a grandfather helping out with suggestions his grandsons.

Some of the worst cases of discipline have been easily mastered because of the boy's interest in the shop work. There is nothing like a saw and fir board for letting the superfluous steam out of a boy.

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NEWPORT is reached by way of the Southern Pacific to Albany or Corvallis, thence Corvallis & Eastern R. R. Train service daily and the trip a pleasure throughout.

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SEASON SIX MONTHS TICKET \$5.00.  
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Our elaborate new Summer Book gives a concise description of Newport, including a list of hotels, their capacity and rates. Call on telephone or write local agents.

WM. McMURRAY,  
General Passenger Agent, Portland, Oregon.

## The Want Advertisements are "Humanizing"

When more people come to use and answer classified advertisements, more people will know each other—

### More People with Mutual Interests Will Meet—

more people will find channels and opportunities for reciprocal service.

Truly, the want ads. are "humanizing" people — shaming away the scorn of small things, the scorn of "bargaining," of exchanging useful but not used things for useful and usable ones.

Governor Chamberlain yesterday suspended traditional rules and allowed a prisoner to return to his home in Portland for a one-hour's visit with his dying mother. This is the second time this has been done by the governor.

Constipation, or irregularity, is very often the cause of sick-headache. Lane's Family Medicine is the great preventative and cure of headache. Druggists sell it for 25c.

Admiral Rojestvensky, who lost the battle in the Japan sea to the Japanese died yesterday from the wounds received at the time.

The Western Federation of Miners, in session yesterday, devoted themselves to discussing politics. Mary favored Socialism.

A cough cure that can be given to children without chance of harm is Kemp's Balsam, the best cough cure it does not contain poisons or harmful drugs. Druggists sell it.

## The Difference In Jewelry

There's satisfaction and real pride to persons of distinctive taste, in having and wearing things different from the ordinary.

Graceful and unusual jewelry in every different article that goes to make up our stock may be had here in RINGS, PINS, BROOCHES, LOCKETS, BRACELETS, CHAINS, WATCHES, FOBES, ETC.

Visits from lookers are appreciated whether a sale results or not.

**Barr's Jewelry Store**  
State and Liberty Streets.

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ONE OR MANY COLORS  
LARGEST FACILITIES IN THE WEST FOR THE PRODUCTION OF HIGH GRADE WORK  
RATES AS LOW AS EASTERN HOUSES

**HICKS CHATTEN ENGRAVING CO.**  
Alden, PORTLAND, ORE.

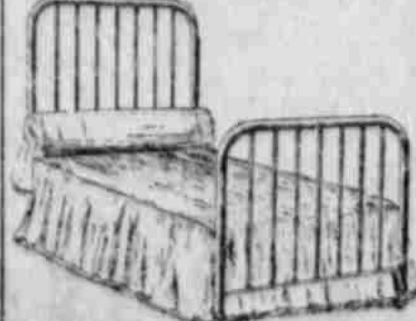
## Good News For You

LISTEN!  
**\$12.50**  
**Enameled Beds**  
**\$12.50**

This offer is really a cause for jubilation among Bed buyers for what good housewife is not partial to a neat, cleanly Enameled Bed?

READ ON, THIS TELLS YOU ALL ABOUT IT

**This Brass Filled Enameled Bed for \$12.50**  
Has extra large iron posts with ornamented brass tube fillings. Height of head almost 5 1/2 feet. Its rich blue color with brass filling rods gives it an attractive appearance which you would term "grand." We've marked it at the low price of \$12.50



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Will Be Made This Season by the SOUTHERN PACIFIC (LINES IN OREGON)

## From Salem, Ore.

	AS FOLLOWS:	
	BOTH WAYS	ONE WAY
TO	THROUGH	VIA
	PORTLAND	CALIFORNIA
Chicago	\$74.15	\$87.50
St. Louis	\$69.15	\$82.50
St. Paul	\$61.65	\$817.5
Omaha	\$61.65	\$75.00
Kansas City	\$61.65	\$75.00

TICKETS WILL BE ON SALE  
July 6, 7, 22, 23  
August 6, 7, 21, 22

Good for return in 90 days with stopover privileges at pleasure within limits

## REMEMBER THE DATES

For any further information call on agents.  
WM. McMURRAY,  
General Passenger Agent,  
PORTLAND, OREGON.

Time Card No. 53, Southern Pacific Co., Effective Sunday, May 17, 1908.

Toward Portland, Passenger.	No. 16.—5:13 a. m.—Oregon Express.
No. 18.—8:40 a. m.—Cottage Grove passenger.	No. 12.—2:45 p. m.—Roseburg passenger.
Toward Portland, Freight.	No. 222.—5:00 p. m.—Portland fast freight.
No. 226.—10:40—11:28 a. m.—way freight.	Toward San Francisco, Passenger.
No. 11.—1:03 a. m.—Roseburg passenger.	No. 17.—6:45 p. m.—Cottage Grove passenger.
No. 15.—9:50 p. m.—California express.	No. 13.—3:31 a. m.—San Francisco express.
Toward San Francisco, Freight.	No. 221.—2:43 a. m.—Portland fast freight.
No. 225.—11:28 a. m.—way freight.	

## Oregon Electric Time Table

Time of arrival and departure of cars at Salem is as follows, Portland and intermediate points:

Arrive	Leave
Local 8:40 a. m.	6:01 a. m.
Express 10:50 a. m.	9:05 a. m.
Local 1:25 p. m.	11:05 a. m.
Express 4:20 p. m.	1:45 p. m.
Local 5:45 p. m.	3:25 p. m.
Express 8:20 p. m.	6:00 p. m.

## CORVALLIS & EASTERN R. R. TIME TABLE

No. 4—	Leaves Detroit	1:00 p. m.
	follows, commencing Jan. 14, 1908	
	<b>Trains for Corvallis.</b>	
No. 8—	Leaves Albany	7:55 a. m.
	Arrives at Corvallis	8:25 a. m.
No. 10—	Leaves Albany	3:50 p. m.
	Arrives at Corvallis	4:25 p. m.
No. 6—	Leaves Albany	7:45 p. m.
	Arrives at Corvallis	8:20 p. m.
	<b>Trains for Albany.</b>	
No. 5—	Leaves Corvallis	6:20 a. m.
	Arrives at Albany	7:10 a. m.
No. 9—	Leaves Corvallis	2:15 p. m.
	Arrives at Albany	2:55 p. m.
No. 7—	Leaves Corvallis	6:00 p. m.
	Arrives at Albany	6:40 p. m.
No. 11 (Sunday only)—	Leaves Corvallis	11:15 a. m.
	Arrives at Albany	11:55 a. m.
No. 12 (Sunday only)—	Leaves Albany	12:25 p. m.
	Arrives at Corvallis	1:15 p. m.

For further information apply to Portland, Oregon, June 22nd and further notice, the following service will be in effect on the of the C. & E. R. R. between Albany and Yaquina, daily except Sunday:

Train No. 16	Mixed
Leave Albany	7:45 a. m.
Arr. Yaquina	1:30 p. m.
Train No. 15	Passenger
Leave Albany	2:15 p. m.
Arr. Yaquina	7:00 p. m.

On Sundays the service will be as follows:  
Lv. Albany 7:35 a. m.; ar. Yaquina 11:40 a. m.; Lv. Yaquina 6:00 p. m.; ar. Albany 11:30 p. m.

WM. McMURRAY,  
Gen. Pass. Agent

## Biliousness

Dull headache, furred tongue, yellowish cast to the whites of the eyes, sallow skin, offensive breath: are all signs that the liver needs a dose or two of

## BEECHAM'S PILLS

Sold Everywhere. In boxes 10c and 25c.