

# GRANGE TO STUDY DOMESTIC SCIENCE

Comprehensive Outline of Work Prepared for Winter by Lilian Tingle.

EVERY PHASE COVERED

State Lecturer Johnson Will Distribute These Among Various Granges of State for Study During Present Season.

The most pretentious and comprehensive branch of study adopted by state lecturers J. J. Johnson for the Granges of the State is that of domestic science. It is considered one of the most important, and the most important, subject the Grangers will study during the year. Covering every phase of domestic science, the state lecturer was most fortunate in securing the assistance of Miss Lilian Tingle, who with much care has prepared searching and clear outlines of all the topics contained in the course. Details are covered with the analysis of the subjects so that the farmer's wife or daughter will have no difficulty in studying their systematic and profitable course. The course will be started in December and Miss Tingle's analysis will be used throughout the state. Following is the analysis of all the topics on domestic science in the regular course as prepared by Miss Tingle.

**Surroundings of the Home.**  
1.—In relation to health. Consideration of soil and dirt. Location of well, outbuildings, manure heap, etc. Site drainage. Ground air.  
2.—The relation of beauty. The flower garden as a health-giver. Use of color and decoration. Aesthetic, hygienic and economic uses of the vegetable garden. The advantage of screened porches, open air kitchens and sitting-rooms.  
3.—The relation of dress. (a) To insure dryness and make the house warmer in winter and cooler in summer. (b) To store up heat. Construction materials, floor, ceiling, drainage and ventilation. Good and bad construction. Divisions according to use.

**Care of the Home. Home Sanitation.**  
1.—Care and cleaning. Avoidance of germs. Collecting dust, cracks and dirt. Disinfectants. Distinction between (1) harmful dirt that is not dangerous, (2) dirt which does harm, (3) dirt which is dangerous. (a) Disinfectants. Use of brushes. The damp cloth. (b) Disinfectants. Use of disinfectants. (c) Ventilation. Necessity for ventilation. Quantity of fresh air required. Window shades; open windows; arrangements for performing household duties and for sleeping in the open air. Impurities of air and their effects.  
2.—Household wastes. Classes of waste: (1) Inorganic refuse. Burning and burial. Use of ash as fertilizer and deodorizer. (2) Organic refuse. Garbage, human excreta, kitchen slops. Dangers from organic wastes. Dangers from kitchen drainage pools. The earth closet. Kitchen drainage.

**Personal Hygiene.**  
1.—Hygiene of feeding and nutrition. Necessity for study of diet. Air and food. Removal of food wastes. Attention to the excretory system.  
2.—Cleanliness. (a) General. (b) Personal cleanliness, effects of neglect, effect of different kinds of baths (a) cleansing, (b) stimulating, (c) medicinal. Sun bathing. The prevention of colds.  
3.—Physical exercise. Outdoor exercise essential for health. Effects of balanced muscular exercise upon the general health. Methods of securing outdoor exercise. Home advantage of physical culture. Home work from a physical culture standpoint.  
4.—Rest. Necessity for proper amount of sleep. Unnecessary expenditure of nervous energy. Learning to relax. Saving sleep.  
5.—Clothing. Character of textile fibres. Relation of clothing to perspiration. Winter clothing. Winter warmth. Freedom from restriction. Effect of color of clothing. Working dresses.

**Molds, Fermenting and Preserving.**  
1.—General nature of molds. Results of mold growth. Useful molds. Conditions favoring mold growth; protection of food from mold. Mold-infected rooms. Prevention of mold from decay. (a) By drying. (b) By cooling. (c) By desiccation; (d) by poisonous—borax, salicylic acid, formalin, etc. (e) Non-poisonous—sugar, vinegar, salt. (f) By heating.  
2.—Methods of canning. Essentials. (1) Sterilize bacteria. (2) Prevent access of all other bacteria. Fruit and everything that comes in contact with it must be sterilized. (3) Open and machine. (4) Fruit placed directly in cans. Use of (a) wash boiler; (b) steamer; (c) oven. Sterilized and unsterilized fruit.

**Leaven.**  
1.—Yeasts and their distribution. What they are, how they grow; conditions of growth—food, temperature, etc. Cultivated yeasts.  
2.—Yeast in the household. Used as source of carbonic acid gas. Methods of obtaining yeast. Fermenting power of different yeasts. Fermenting power of different yeasts. Cultivation of yeast brews. Regulation of yeast in bread making—amount, time, temperature.  
3.—Substitutes for yeast. Baking-powders. "Salt rising." Acrated bread. Sour dough bread.  
**Pure Water, Clean Milk.**  
1.—Water as a source of disease. Dangers from impure water. Sources of contamination. Surface infection. Sewage pollution.  
2.—How to secure safe water. Tests for pollution. Boiling, distilling and storing water. Filters. Their use and dangers.  
3.—Diseases carried by milk. Bacteria in milk. Sanitary milking. Milk vessels. Temperature. Methods of sterilization and pasteurization. Advantages of dairy inspection.

**Meats and Vegetables.**  
1.—Food value of meats; their place in a dietary; meat equivalents; effect of a diet (a) with excess of meat-building material, (b) with insufficient meat-building material. Amount needed for different ages and occupations.  
2.—Methods of cooking meats. Aim: retention of juices and softening of connective tissue. The use and abuse of the frying pan. Relative merits of roasting, baking, broiling, frying, stewing, boiling and steaming.  
3.—Food value of vegetables. Vegetables having (a) value as food of tissue-building foods (b) value as bulk foods or as sources of flavor, (c) as sources of mineral salts.  
4.—Cooking of vegetables. Aim: to retain salts, develop flavor and soften tissue. Care in cleaning. Effects of salted or unsalted water. Attractiveness and variety of serving—soups, vegetable soups, vegetable cooked and preserved to large variety indifferently prepared. Addition of milk, eggs, starch, butter, etc. to vegetable dishes. Examples.

**Diet and Nutrition.**  
1.—Importance of food value. Food values and tissue-building foods. Functions of water and salts. Study of tables of food values for purposes of comparing different articles of diet.  
2.—Dietary standards. Average proportions of a dietary standard. Average proportions of fuel and tissue-building foods. Balance required in dietary. Relative merits of animal and vegetable meats. Danger from over or under nutrition.  
3.—Effects of malnutrition. Purpose of malnutrition. Effects of malnutrition. "Fleetingness." The training of children in proper nutrition. Value of regular visits to the dentist.  
**School Training in Domestic Economy.**  
1.—Necessity for school training. What is being done for the boy in agriculture and engineering should be done for the girl in domestic science. Study of the best methods of doing the things of daily life. The reasons upon which the methods are based. Progress in domestic matters. Interests and thinking of girls directed towards the home.

center of future activity. Improved standards of living with greater intelligence and happiness.  
2.—Co-operation of home and school. Theory and example may be given in school practice about home life. Parents should co-operate with teachers in placing a certain amount of responsibility upon daughters and encourage them to do better. Better have a little food spoiled occasionally than have a child spoiled and unskilled dishwasher.  
3.—What is being done. Introduction of domestic science into rural schools. Consolidated schools. The agricultural college. English system of training students in rural districts. Should Oregon employ special instructors under the County Superintendent?

**The Fireless Cooker.**  
1.—General principals involved. Use of non-conducting material. Heat is not production of heat. Necessity for having food at boiling point. Amount of heat determined by amount of food. Use of double cooking vessels and hot water for small amounts of food.  
2.—How to make a fireless cooker. Use of material at hand, paper, hay, sawdust, ash, etc. (a) How to make a fireless cooker. (b) For cooking. (c) For keeping food hot at home or in the field. Advantages of long, slow cooking. Precautions to avoid fermentation. "Casserole" beans, soups, stews, jellies, fruits, frozen dishes.

**CANNOT REVOKE FRANCHISE**  
Blanket Streetcar Grant Not Subject to Forfeiture, Says Kavanaugh.

The special committee of Councilmen, named by Mayor Lane some

**RETURNS FROM INSPECTION OF VARIOUS CORPS.**

**Mrs. Carrie Courter, Inspector Women's Relief Corps of Oregon.**  
Mrs. Carrie Courter, president of George Wright W. R. C. and Inspector of the Department of Oregon, has just returned from an extended tour of inspection, having visited many of the different corps throughout the state. She reports them all in prosperous condition, many of them increasing their membership and much interested in the work.

months ago to inquire into the conditions and provisions of franchises in Portland, held a brief meeting yesterday morning and listened to a report by City Attorney Kavanaugh, including his opinion as to the power of the Council to regulate service on the lines of the Portland Railway, Light & Power Company or to revoke the franchise because it has abandoned some short lines without authority from the city. In brief, it is that the Council cannot revoke the franchise for these violations, but that, under the police power, reasonable regulation of traffic may be made. The Council has ample power, Mr. Kavanaugh held, to revoke the hydraulic elevator franchise of the Portland Railway, Light & Power Company, which was originally granted to the Portland Hydraulic Elevator Company, and was taken over by the streetcar corporation. The plant was dismantled and is no longer in use, but the company is said to be supplying electrical current instead to the patrons.

The special committee will make its report to Mayor Lane in the near future, and the Mayor will then forward it to the Council. It is doubtful whether the Council will take cognizance of the report, as the committee was not authorized by the Council.

**NEW DIVERSION RATE IS MADE**  
Reduced From \$5 to \$2 Per Car. Shippers Still Come Out Ahead.

By virtue of a new diversion rule to be adopted on the O. R. & N. lines January 3, the diversion charge will be reduced from \$5 to \$2 per car. This will apply to freight diverted in transit or after arrival at first destination.

"The charge of \$5 per car was made," said W. D. Skinner, assistant general freight agent for the Harriman lines, "because of the abuse which had been carried on in the diversion of certain classes of traffic, causing the detention of cars, congestion of terminals, additional clerical force required to keep track of cars, etc. The charge has, however, been reduced and is not assessed as a revenue proposition, but serves as a check on the use of the diversion privilege. It is the purpose of the rule to prevent the abuse of the privilege and at the same time to permit the diversion in legitimate cases at reasonable rates."

"In such cases, the diversion charge will prove far less expensive to shippers than the combination of the local freight rates that would be charged in the event of shipments of freight actually being transferred from one point of delivery to another. By taking advantage of the diversion charge, shippers may still take advantage of the transcendent rate as against the combination of local freight rates."

**PASSENGER TO DEPOSIT FARE**  
Innovation to Be Tried on Pay-as-You-Enter-Cars.

New pay-as-you-enter cars will be put in service by the Portland Railway, Light & Power Company about December 15. The cars are fitted up and ready for service with the exception of the installation of the cash boxes, which are now on their way from the East. These boxes are of glass and will be placed in the entrance of each car. Passengers will drop their fare, either coin or ticket, into this box. The conductor will make change, if necessary, and will see to it that each passenger drops his fare in the box as he enters. That to err is human is recognized by the streetcar company in making the boxes glass. If bad coins are dropped, the conductor can see them instantly. The system is exactly the same as that in use on the elevated trains in New York City. The new cars will be put in service on Twenty-third and Morrison streets and Hawthorn avenue.



**Clocks \$2.75**  
Eight-day Clocks, which strike every hour, guaranteed to be perfect timekeepers, mounted in gold or oak frames. \$2.75  
Regular Clocks for hotels or restaurants. \$2.40  
Fine Parlor Clocks, as shown in illustration, all the latest improvements and guaranteed timekeepers, with beautiful enameled marbled cases, only \$6.25

**\$2.75 Morris Rocker \$1.25**  
For children up to ten years of age, made of solid oak, golden, or mission finish, not toys, but useful as well as attractive. The picture shows a chair, but what we have for sale are rockers of exactly the same pattern. \$1.25  
Same style, with seat and back upholstered in green or red imitation leather. \$1.75

**Music Cabinets**  
Thirty patterns to select from. Prices \$7.65 to \$40.00

**Leather Covered Chairs and Rockers**  
About a dozen samples to be closed at very material reduction. No. 247—\$26.00 Chair, leather seat, back and arms, oak frame. \$17.50  
No. 469—\$36.00 Rocker, leather seat and back, mahogany finish frame. \$21.00  
No. 508—\$27.50 Rocker, leather seat and back, oak frame. \$19.00  
No. 509—Overstuffed Leather Rocker, like illustration, value \$47.50, now only \$33.00  
We Do Upholstering and Re-upholstering.  
Leather Work a Specialty.

**Mail Orders**  
We solicit mail orders, which will receive careful and prompt attention. Everything exactly as represented or money refunded. We pay freight on everything except bulky goods for 100 miles. Try us once and you will trade no other place.

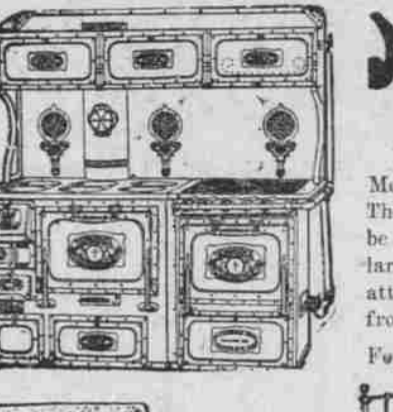
**3.00 Table for \$1.95**  
Another excellent special for this week. Table exactly as illustrated. Made of solid oak, good rub finish, top 24x24. French legs. No more than one to a customer, and no phone orders taken. \$1.95

# SENSIBLE CHRISTMAS GIFTS

Useful presents are the ones worth while, and nothing can be more worthy than a wisely selected piece of furniture. From our extensive display it is easy to select something that will please. Especially suitable for presents we mention dressing tables, princess dressers, pedestals, tabourettes, ladies' desks, mirrors, chairs and parlor cabinets. Extra liberal cash discounts are offered in the various departments this season, and nowhere can you get more for your dollars than at Edwards Company's store.

**Monarch MALLEABLE**  
The 'Stay Satisfactory' Range

Nothing can make a more suitable Christmas gift than a perfect range. It will be used every day in the year and several times a day. Another range might do, but the Monarch is the best. You will believe it if you come and see them or write for our free booklet.



**Monarch MALLEABLE**  
The 'Stay Satisfactory' Range

Monarch Ranges are instructible. They need no blacking. They can be sold back to us for thirty dollars. They have most modern gas attachments. They are priced from \$57.00 to \$135.00. For cash we allow liberal discount.

**Ladies' Desks \$5**  
Small Ladies' or Youth's Desks, beautiful grained-gold-on-oak finish. \$6.00  
No. 299—Highly Polished Red Oak Ladies' Desk, 23 1/2 inches wide, regular price \$5.95, special price \$5.35  
No. 711—Imitation Mahogany Desk, just illustration, value \$8.50, special at \$8.55

**Automatic Morris Chairs**  
Of these we can say that our display is exceptionally fine, the prices are right and a home is incomplete without one. No. 487—A chair with beautiful plain lines, gold-enamel polished oak with velvet cushion, spring seat. We are offering this week at special price. \$10  
No. 133—Massive, heavily carved chair, automatic style, with velvet cushions and spring seat, worth \$21.00, special at \$14.75  
No. 243—Large chair, like the illustration, good back support, solid polished oak, value \$15.00, special \$12

**Child's Iron Crib \$6.75**  
White Enamel Iron Child's Crib, drop side, wicker wire spring included, size 28x48, inches. \$6.75  
No. 462—Enamel Iron Crib, reversible sliding sides, brass rails and knobs, steel spring, regular \$12.75, reduced to \$9.75  
No. 162—Box in town for the quality. Veritas Martin finish, reduced \$9.00 to \$7.00

**Plate Racks \$1.00**  
Made of golden oak, a pretty little rack that will hold six plates and has hooks for six cups. Only a few of these, so come early if you want one.

**75c Pictures for 39c**  
Subject fish and game. Just like illustration, size 12x18 inches, frame weathered oak 3/4 inch wide. Very popular for dining-room walls, value 75c, special \$39c

**Dinner Sets**  
We make a specialty of Cottage Dinner Sets, which contain 18 pieces, giving 12 dozen of each needed article. We are offering these this week at fancy pattern with gold lines at \$4.45

**A Snap 65c**  
Brass Doll Beds 65c  
\$1.75 value, exactly like illustration, 18 inches long, 11 inches wide and 12 inches high, made of bent brass rods, complete with canopy pillows and mattress, all covered in flowered cretonne, only \$65c

**Almost Half Price**  
We cannot make our goods half price, because we do not mark them up to the enormous prices you see in some stores. These day for cabinets are offered at actual cost, and that is more than you get at the half-price boys' sale.  
No. 232—Regular \$22.00, cost \$15.00  
No. 408—Regular \$27.50, cost \$19.00  
No. 384—Regular \$45.00, cost \$31.00  
No. 218—Regular \$47.50, cost \$33.00

**Portieres, Lace Curtains and Couch Covers**  
We show an endless variety of patterns and prices. Such goods are very popular gifts. You can get a Good Couch Cover for \$4.00  
Good Portieres \$5.00  
Good Lace Curtains \$6.00  
We have plenty of low-priced goods in these lines for those who want them.

**This Couch \$30.00**  
Regular value \$40.00, solid oak frame with loose leather cushions. This price one week only.  
**Special Sale of Leatherette Couches This Week**  
\$33.00 value. See Them Before Buying. \$19.00

**85-191 EDWARDS COMPANY HOUSE FURNISHERS**  
A GOOD PLACE TO TRADE

**GOODS DELIVERED PROMPTLY**  
YOUR CREDIT IS GOOD

**VANCOUVER IS VISITED**  
PORTLAND REALTY BOARD GOES ON EXCURSION.

Takes In Sights and Hospitality of City Across River and Gains Points on Its Growth.

Leaving Portland on trolley cars at 1:15 P. M. yesterday, 150 members of the Portland Realty Board and their guests were conveyed to Vancouver, Wash. Upon arrival at the foot of Main street the excursionists were met by a committee representing realty men of that city and its Commercial Club. Cars were held in waiting by the Vancouver Street Railway Company, and a trip was made out through the main streets of the city and on into newly platted districts, about three miles from the business section. On return the cars were stopped in front of Metzger's, 312 Washington street,

the vicinity and the terminus yards at the foot of Tenth street.

Members of the board were loud in words of praise for the hearty manner in which their reception and entertainment in Vancouver were carried out, and to a man expressed their belief that with the advent of the North Bank Road, the city is destined to grow rapidly. There was also much surprise expressed at the rapid progress made in the last few months in laying hard-surface streets and in the class of new buildings that are in evidence in nearly all sections of the city.

**NEAR FREEZING POINT**  
The past few nights have made every one think of warm underwear and bedding. For tomorrow we offer splendid bargains in both these departments. See our ad in today's Oregonian. McAllen & McDonnell, Third and Morrison.

**ANNOUNCEMENTS.**  
F. E. Beach & Co., Interior Paint Co., 145 First St. Phone Main 1234, A. 1234.  
D. Chambers & S. S. opticians, 321 Morrison, cor. Sixth, are the best.

**FIND SHORTAGE IN ACCOUNT**  
WAHKIAKUM COUNTY SHERIFF'S BOOKS WRONG.

Portland Experts Go Over Books and Find Careless Methods of Entry With Shortage of \$2000.

As the result of an investigation of the records of County Treasurer West, of Wahkiakum County, Wash., that official has been arrested on a charge of embezzling sums aggregating nearly \$2000. He is now under \$1000 bonds. West will be tried at the January term of court. The investigation of the records was conducted by E. H. Callis and J. W. Ferguson, accountants of Portland, at the direction of the County Commissioners. The results of their work have been compiled in a pamphlet which has just been published for circulation among the taxpayers of Wahkiakum County. West has been County Treasurer for a number of years. He was nominated for County Auditor at the September primaries, and there being no other candidate he was duly elected at the general election, though his arrest had occurred prior to that date. The report of Messrs. Callis and Ferguson sets forth that the office of County Treasurer has been conducted in a most lax manner, and that the county funds have not been kept with conscientiousness, either as to their record or handling. The report shows that instead of keeping the warrants after drawing checks on the county funds, he has permitted them to draw interest and has charged the county with the interest. Part of the shortage is accounted for by falsification of the warrant registers. A large number of warrants is also missing from the files of the office. Developments are expected when the taxpayer's records are fully advised of the deficit.

**Compiling Election Returns.**  
OLYMPIA, Wash., Nov. 28.—(Special.)—State election returns have now been received from all the counties and are now being tabulated at the offices of the Secretary of State for the Legislature, which will canvass them in January. Totals will be made up tomorrow and printed abstracts are expected Monday.