

ment of childish disorders; physical and moral management of children. Housekeeping and thrift—management of work, management of income, helps to saving, investments. Text books: Johnston's "Chemistry of Common Life," Dr. Lancaster's "Food," Dr. Angus Smith's "Air and Rain," Dr. Mann's "Guide to the Knowledge of Life," Dr. Mann's "Health for the Household."

*Cookery*.—One year's course of study. Monday, Tuesday, Thursday, and Friday. Plain cookery: Roasting and baking, boiling meat and vegetables, soups and stews, cold-meat cookery, cheap dishes, fish (broiling and frying), bread and cakes, pies and puddings, preserving, pastry, sick-room cookery. High-class cookery: Trussing, boning, roasting, braizing, soups and purées, entrées, vegetables and salads, fish, omelettes and soufflés, entremets, pastry, puddings, sauces, jellies and creams, garniture in general. Course B for professional cooks, Course C for teachers, not in operation. Text-book: "South Kensington Official Handbook of Cookery." Students wishing fuller information and advice should apply to the instructress in domestic economy.

*Department of Geology, Mineralogy, and Mining* (Instructor, Mr. S. Herbert Cox, F.G.S., F.C.S.).

The course of instruction in geology includes a number of subjects, and is completed in three years. Students who wish to get the certificate of Expert in Geology or Mining must attend the whole course of instruction and pass a satisfactory examination in each subject; must also obtain certificates for chemistry, mathematics, surveying, and physics, and must satisfy the examiners as to their knowledge of English and bookkeeping. A student may, however, attend any course of instruction in any subject (A) under the instructor in geology, and if he pass a satisfactory examination shall be granted a certificate. One year's course of study, April to December, inclusive. (A) These subjects are—geology and palæontology, mineralogy, mining, mining-machinery, botany and use of microscope, underground surveying.

To meet the wishes of those who want to attend for special certificates under the Department of Geology and Mining, certificates for the branches hereunder named will be granted after attendance at the prescribed courses of instruction and passing satisfactory examinations. Certificate for—1, captain of shift, and, 2, underground manager (alluvial, quartz, and metalliferous mines); 3, battery-manager; 4, underviewer; 5, metallurgist and assayer; 6, mining surveyor; 7, field geologist; 8, geological expert; 9, mining expert.

Classes must be attended and examinations passed in the following subjects for the different certificates: 1. Captain of shift (alluvial, quartz, or metalliferous): Theoretical mechanics, applied mechanics, mechanical drawing, mining (second class): time required, one year, two nights a week. 2. Underground manager (alluvial, quartz, or metalliferous): Theoretical chemistry, theoretical mechanics, heat, applied mechanics, mechanical drawing, physical properties of minerals, metallic minerals, physical geography, principles of stratigraphy, metalliferous mining (first class): time required, two years, two nights a week. 3. Battery-manager: Theoretical chemistry, practical chemistry (first class), mechanics (theoretical), heat, electricity, applied mechanics, mechanical drawing, physical properties of minerals, metallic minerals, mining: time required, two years—one year two nights a week, and one year three nights a week. 4. Underviewer (coal-mining): Theoretical chemistry, theoretical mechanics, heat, applied mechanics, mechanical drawing, physical geography, principles of stratigraphy, coal-mining (first class): time required, two years, two nights a week. 5. Assayer and metallurgist: Mathematics, theoretical chemistry, practical chemistry (first class, which to include some quantitative), metallurgy and assaying (first class), mineralogy: time required, two years—one year two nights a week, and one year three nights a week; six months' day-work in laboratory. 6. Mining surveyor: Mathematics (first class), applied mechanics, mechanical drawing, mineralogy, rocks, physical geography, principles of stratigraphy, mining, mining-surveying (first class): time required, two years, three nights a week. 7. Field geologist: Mathematics, theoretical chemistry, physics, freehand drawing, mineralogy (first class), geology (first class): time required, two years—one year two nights a week, one year three nights a week. 8. Course of instruction for geological expert: Mathematics, theoretical chemistry, practical chemistry, physics, applied mechanics, mechanical drawing, freehand drawing, mineralogy (first class), geology (first class), mining: time required, three years, three nights a week. 9. Course of instruction for mining expert: Mathematics, theoretical chemistry, practical chemistry (first class), physics, applied mechanics, mechanical drawing, mineralogy (first class), geology (first class), mining (first class): time required, three years, four nights a week. In all cases where not otherwise specified a second-class certificate will be taken as a pass in any subject. The times specified for obtaining the different certificates may be indefinitely extended in any case, but never reduced.

All students wishing to obtain a certificate as mining or geological expert or other certificate (1 to 7) must, at some time during the course, satisfy the examiners that they have a fair knowledge of English and bookkeeping; but those who require one of the class-certificates only will receive it on having attended the classes and passed the specified examinations. The subjects necessary for the geological and mining branch of the College are as follows: *Chemistry*: Theoretical, practical, Mr. Dixon; day-classes—assaying, metallurgy, Mr. Dixon. *Mathematics*: Six books of Euclid, algebra to simple equations, simple plane trigonometry, Mr. Kinloch. *Physics*: Mechanics, light and sound, heat, electricity and magnetism, Mr. Hewitt. *Botany*: Dr. Katz. *Applied Mechanics*: Six months, Professor Warren. *Mechanical drawing*: Six months, Professor Warren. *Mineralogy*: Crystallography, physical properties of minerals, metallic minerals, non-metallic minerals, Mr. Cox. *Geology*: Physiography, principles of stratigraphy, stratigraphical geology, Mr. Cox. *Mining*: General principles of mining, coal-mining, metalliferous mining, Mr. Cox. Wherever either coal-mining or metalliferous mining is specified in the course the general principles of mining are included.

*Scheme for the Geological, Mineralogical, and Mining Classes*.—April, May, and June: Physical geography (physiography), Wednesday, 7–8; crystallography, Wednesday, 8–9; physical