

**A GRADUATED COURSE OF  
SIMPLE MANUAL TRAINING  
EXERCISES FOR EDUCATING  
THE HAND AND EYE. PART I**

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A Graduated Course of Simple Manual Training Exercises for Educating the Hand and Eye. Part I by W. Hewitt

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**W. HEWITT**

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FOR EDUCATING  
THE HAND AND EYE

BY  
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PART I.  
CONTAINING THE FIRST AND SECOND SERIES

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1892

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## PREFACE.

It is now very generally admitted that the Kindergarten exercises, as carried out in many of the best infant schools, provide an excellent means of education through the medium of the operations performed by the children themselves with the objects comprising the various gifts. And it has been a frequent source of regret that arrangements were not made for continuing such work, in a more advanced form, with the children after they had left the infant school. The great attention which has recently been given to the general subject of technical education has considerably strengthened this feeling, and has led to attempts being made to supply this deficiency in the ordinary school course.

The present scheme of exercises, drawn up at the request of the Liverpool School Board, and successfully introduced into nearly all their schools, is intended to provide a graduated four years' course of practical work for children of from seven to eleven years of age (Standards I.—IV.). It consists of four series of exercises, each series containing thirty exercises, and forming the subject of a year's work. The present volume contains the first and second series; the second part, containing the other two series, is in an advanced stage of preparation.

The author is indebted to several teachers in the Board's Schools, and to the Board's inspectors, for various criticisms suggested in the course of the actual working out of the exercises in the schools.

The exercises involve the use of several different materials—wooden laths, paper, wire, clay, etc.—and this is done partly



for the sake of variety, but more especially in order that the children may become practically acquainted with the different characters of various substances and the different methods of manipulating them. Whilst there is much to be said in favour of confining the exercises to one particular branch of work, and so bringing it to a considerable degree of development and making the children expert in its performance, it is probably wiser in the earlier stages of education to aim at a general all-round development of the powers and faculties, and to specialise afterwards when special tastes and powers begin to show themselves. Should, however, the special opportunities or tastes of any teacher incline him or her to one particular material or kind of exercise rather than another, it would be very easy (with the help of such excellent manuals as Ricks' "Hand and Eye Training") to introduce a number of such supplementary exercises. It is, however, strongly recommended that the full course of exercises here given should be taken, and in the same order.

The great object attempted being to educate the mind through the medium of the hand and eye, the production of objects and designs of beautiful form and colour, while not altogether omitted, is subordinated to the intelligent and accurate performance of each step in the exercise. There is consequently very little show work produced, though quite sufficient in the way of construction of simple objects and designs to maintain the interest of the children.

Experience has shown that the children look forward with delight to these lessons; and I have the authority of teachers in several different classes of schools for the statement, that the exercises, when properly carried out, have the effect of brightening and quickening the intelligence of the children, as well as of developing their powers of observation, and training their fingers.

The exercises have been largely based upon the ordinary drawing exercises, and may in fact be regarded as, for the most part, applied drawing. It will therefore be found that the manual training lessons and the drawing lessons materially assist *each other*.

*Preface.*

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The various materials used are such as may readily be obtained; but Messrs. Philip, Son, and Nephew, 51, South Castle Street, Liverpool, have specially prepared most of the materials and apparatus to meet the wishes of the author.

W. HEWITT.

LIVERPOOL, 1892.

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