

Introduction

The file to which this document relates contains the public examination results (Certificate of Secondary Education, General Certificate of Education, 'O' and 'A' level and their Scottish equivalents) for the members of the National Child Development Study.

The results were obtained by writing in 1978 to the schools which study members were known to attend at the time of the last follow-up in 1974. Schools were asked to provide details of all CSE, GCE and (in Scotland) SCE examinations entered up to 1978. They were also asked to indicate where the individual was known to have gone on elsewhere (another school, sixth-form college, FE college etc) and might have taken more such examinations. In such cases those other institutions were also contacted and the relevant results obtained.

Results were obtained for a total of 14,331 individuals who were members of the cohort approximately 95% of those whose secondary school could be identified

The Data

The data in this file simply replicate the information provided by schools. Some consistency and range checks have been applied, but no attempt has been made to sort the results into any order, to allow for double entries or retakes etc. A separate file containing various summary scales which have been used in National Children's Bureau projects is in preparation and will also be lodged with the Data Archive.

In this first file the data are stored as card images. Each card begins with:

Cols 1-3 - the local authority of the school attended at sixteen.

Details of these codes are to be found in the coding frame for earlier NCDS data.

Cols 4-9 - the NCDS 6-digit serial number for the individual concerned.

This is followed by a number of 13-digit strings (in cols 11-23; 25-37; 39-51; 53-65; 67-79), each representing one examination entry. These strings are explained below ('Exam Entries').

Cols 81-100 contain information on card batch and sequence number.

Each individual record comprises as many cards as are necessary to contain information on all the examinations entered.

No Entries

Those individuals known (ie. reported by schools) to have entered for no examinations have one card with columns 1-9 as above and 01 in columns 11-12.

The file contains records only for those people whose school did supply information on examination entries. 'Non-responders' can be identified by those serial numbers in other NCDS files which do not appear in this one.

Exam Entries

The 13-digit string represents seven items of information about each entry, as follows:

- | | |
|--|-------------|
| 1. Nature and level of examination and board | (2 columns) |
| 2. Mode of examination | (1 column) |
| 3. Subject | (2 columns) |
| 4. Grade awarded | (2 columns) |
| 5. Date of examination | (4 columns) |
| 6. Place of examination | (1 column) |
| 7. 'Other' information | (1 column) |

The coding frame provides a detailed explanation of the coding of each of these items, but some explanatory and cautionary notes may be helpful.

1. Nature and level of examination and board

There were at the time thirteen regional examinations boards administering the Certificate of Secondary Education in England, seven General Certificate of Education boards in England, the Welsh Joint Education Committee administering both CSE and GCE in Wales, and the Scottish Certificate of Education board.

The single code for this item identifies the board, the type of exam (eg CSE or GCE) and the level (eg. 'O' or 'A' level).

2. Mode

There were three modes of examination:

Mode One: the syllabus was drawn up and the examination set and marked by the board.

Mode Two: the syllabus was drawn up by the school, but the examination set and marked by the board.

Mode Three: the syllabus was drawn up by the school, and the examination set and marked by the school, but moderated by the board.

Modes two and three were most commonly used for CSE, but there were a few such schemes for GCE 'O' level. However, it was apparent that many schools ignored this item for exams other than CSE. It will be seen that a separate code is used for 'mode not given', but it is likely that almost all of those will in fact be Mode One.

3. Subjects

Nomenclature for subjects varies greatly between boards and the coding frame attempts to identify every subject name which was met. Grouping of subjects under any one code is based on the name of the subject as provided by the school, but in a few particular problematic cases coding was guided by information provided by boards on course content.

4. Grade Awarded

Particular care is needed in the use of this item.

The present common grading system for GCE 'O' level was introduced in 1975. The majority of NCDS members who took 'O' levels at school did so in 1974, or

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earlier, when GCE boards varied in their grading systems. Officially, only a 'pass' or 'fail' was awarded and this was the only information to appear on the certificate. In practice, almost all boards supplied schools with a more detailed grade for an individual's results. This could be a letter (A,B,C etc), a number (1,2,3 etc) or, in a very few cases, a percentage.

After June 1975 all boards adopted a common system, awarding a grade A-E or Unclassified. Although this did not reflect the official position, it remained common practice to refer to grades A-C as 'pass' and the remainder as 'fail'.

Clearly the coding used in NCDS had to allow for these variations, both among boards and in the level of detail supplied to us by schools. It was decided not to attempt to impose any equivalence between the grades reported at the coding stage, but to record sufficient information to make this possible subsequently. Thus it will be seen that, for example, all grades recorded as 'A' or '1' irrespective of their meaning are coded as '10' for the item, and so on.

Anyone wishing to impose any equivalence between grades will therefore need to use this item on grades in conjunction with the item indicating which board was concerned and the relevant information provided in the 'other' column (see below).

The table below provides the information which can be used as the basis for these computations. It shows the equivalences between the grades awarded by boards before and after 1974 as defined in a joint statement issued by the GCE Examining Boards in April 1975.

GCE '0' level grades - definitions of equivalences

1974 and before			1975 and after (all boards)	
Official	Unofficial		Official	Unofficial
All Boards	London	All other boards		
PASS	A	1 2	A	PASS
	C	3 4	B	
	E	5 6	C	
FAIL	F H	7 8 9	D E U	FAIL

In addition, as already mentioned, in a few cases (ie some results for one board -SCJB) results were provided as a percentage. In these cases the grades were coded directly in this form, ie coded 30 = 30%, coded 55 = 55% etc. It will be seen that these cases are identified by a '4' in the 'other' column.

Some schools reported the results only as 'pass' or 'fail', either because this was the only information given to them by the board, or, more commonly, because, as this was the 'official' result, it was only this information which they felt able legitimately to provide to us. In these cases 'grade' was left uncoded and the 'pass' or 'fail' recorded in the 'other' column (see coding frame).

For some entries two grades were awarded, most commonly one representing the result for the main, written examination and the other the result of a practical or oral element. In these cases the main result was coded as the first column of the item and the subsidiary result in the record column (eg '13' represents grade 1 (or A) awarded for the main exam and 3 (or C) for the oral or practical exam). These instances are further identified by a code in the 'other' column, as are cases where the coder was uncertain as to which of two grades was the main one.

Similarly two grades were sometimes given where the candidate had taken a joint CSE/GCE or Experimental 16+ examination. The CSE result was then coded in the first column and the GCE result in the second column with, again, a code in the 'other' column which indicated that this had been done.

5. Date of Examination

Recorded as month and year.

6. Place of Examination

This item records whether the particular examination was taken at the school which the individual attended at the time of the NCDS 16-year follow-up, or elsewhere and if so in what type of institution.

7. 'Other'

A further item containing miscellaneous information, largely in order to clarify grades.

Coding Frame1. NATURE AND LEVEL OF EXAM AND BOARDCertificate of Secondary Education (CSE)

<u>Board</u>	<u>Code</u>
No board given	10
Associated Lancashire Schools Examining Board	11
East Anglian Examinations Board	12
East Midlands Regional Examinations Board	13
Metropolitan Regional Examinations Board	14
Middlesex Regional Examinations Board	15
North Regional Examinations Board	16
North West Regional Examinations Board	17
Southern Regional Examinations Board	18
South East Regional Examinations Board	19
South West Regional Examinations Board	20
Welsh Joint Education Committee - CSE	21
West Midlands Examinations Board	22
West Yorkshire and Lindsey Examinations Board	23
Yorkshire Regional Examinations Board	24

General Certificate of Education

<u>Board</u>	<u>Codes</u>			
	<u>Ordinary Level</u>	<u>Alternative Ordinary Level</u>	<u>Advanced Level</u>	<u>Scholarship level</u>
No board given	50	60	70	80
Associated Examining Board	51	61	71	81
Northern Universities Joint Matriculation Board	52	62	72	82
Oxford and Cambridge Schools Examinations Board	53	63	73	83
Oxford Delegacy of Local Examinations	54	64	74	84
Southern Universities Joint Board	55	65	75	85
University of Cambridge Local Examinations Syndicate	56	66	76	86
University of London Entrance and Schools Examinations Council	57	67	77	87
Welsh Joint Education Committee -GCE	58	68	78	88
Other (eg board uncertain)	59	69	79	89

Scottish Certificate of Education

Unclear whether Ordinary or Higher Grade	90
Ordinary Grade	91
Higher Grade	92
Certificate of Sixth Year Studies	93

Other Codes

Joint GCE/CSE or Experimental 16+	25
Welsh Joint Education Committee - unclear whether CSE or GCE	27
Certificate of Extended Education	29
GCE, but level not given or unclear	30
No information given on level or nature of exam	99

2. <u>MODE</u>	<u>Code</u>
CSE or GCE 'O' level Mode 1	1
" " " Mode 2	2
" " " Mode 3	3
" " " Mixed Mode	4
" " " Mode not given	5
Other exams (Scottish, 'A' level etc)	7
Coder unable to resolve	8

3. SUBJECTS

<u>Name</u>	<u>Code</u>
Greek	01
Greek with Classical Studies	
Latin	02
Latin translation with Roman History	
Latin and Roman History	
Latin with Classical Studies	
Latin language	
Other Ancient/Classical Language	03
Classics	
General Classics	04
Classics in translation	05
Classical studies	
Classical Literature and Civilisation	
Greek/Roman or Classical Civilisation	
Greek/Roman or Ancient History	
Greek and Roman History	
Archaeology	
Ancient History and Literature	
European Studies	09
French Life and Literature	
French	10
German	11
Spanish	12
Russian	13
Italian	14
Welsh	15
Welsh Literature	
Erse	16
Irish	
Gaelic	
Other European Language	17

Other modern languages (other than 19 below)	18
Asian/Oriental/African Languages	19
English Language Use of English	20
English Literature English Studies	21
English (unspecified) Further English Studies	22
History Industrial History	23
Religious Knowledge Bible Knowledge Religious Education Scripture Knowledge Religious Studies Church in the Modern World Comparative Religion World Religion Divinity	24
History of Art History of Art Design Theory of Art Study of Art History of Building	25
Art Art and Design Design Arts Crafts Art with Craft Art with Composition Design for Living Design Studies Three-dimensional Design Design for Practical Living Design and Home Management Creative Studies Modelmaking	26
Music	27
Craft Pottery	28
Drama Drama and Music Dance and Drama Theatrecraft Modern Educational Dance	29
British Government and Politics Politics British Government British Constitution Current Affairs Government and Citizenship	30

Government and Public Affairs	
Institutional Studies	
World Affairs	
Law	31
Economics (only-see 37 for related subjects)	32
Geography	33
Applied Geography	
Environmental Studies	
Geographical Science	
Sociology	34
General Studies	35
Liberal Studies	
Civics	
History of Civics	
Community Studies	
Home and Community Studies	
Family and Community Studies	
Urban Studies	
Individual and Community	
Understanding Industrial Society	
Quality of Life	
Living in the City	
Family Life	
Social Education	
Social Studies	36
Social Science	
Studies in Society and Belief	
Social History and Geography	
Understanding Society	
Social Relations	
People in Society	
Aspects of Human Affairs	
Economics and British Constitution	37
Economic and Public Affairs	
Economic Geography	
Economic History	
Government and Economics	
Social and Economic Studies	
Economic and Political Studies	
British Economic History	
History of the British Economy	
British Economy and Social History	
Economics and Public Affairs	
Humanities	38
Modern Studies	
Contemporary Studies	
Man in the Twentieth Century	
Psychology	39
Behavioural Science	

Dressmaking	40
Needlework	
Textiles	
Textiles (Dress)	
Dress	
Dress and Needlecraft	
Needlecraft	
Embroidery	
Fabric fashion	
Fashion and clothing	
Home Economics (Fabric and Fashion)	
Handicraft	
Home Economics	41
Domestic Science	
Homecraft	
Homemaking	
Home Management	
Home Science	
Services to the Home	
Cookery	42
Nutrition	
Food and Nutrition	
Catering	
Home Economics (Food and Nutrition)	
Accounting	43
Accounts and Book-keeping	
Principles of Accounts	
Money Management	
Commercial Arithmetic	
Maths and Commerce	
Office Practice	44
Commerce Studies	
Business Studies	
Clerical Studies	
Business and Public Affairs	
Social Economics (East Anglian Board CSE North Syllabus)	
Typing	45
Shorthand	
Typewriting	
Speedwriting	
Child Care	46
Child Development	
Home Nursing	
Mothercraft	
Parentcraft	
Nursing	
Commercial Economics	47
Retailing	
Commercial Calculating	
Retailing and Money Management	
Secretarial Studies	48
Secretarial Science	

Mathematics	50
Pure and Applied Maths	
Maths II (Certificate of Sixth Year Studies)	
Elementary Maths	
Pure Mathematics	51
Applied Mathematics	52
Technical Maths	
Further Mathematics	53
Additional Maths	
Alternative Maths	
Additional Statistics	
Maths I (Certificate of Sixth Year Studies)	
Maths III (" " " ")	
Maths for Science	54
Maths and Statistics	55
Statistics	56
Computer Science	57
Arithmetic	58
Calculations	
Mathematics for Living	59
Maths in Society	
Home Maths	
Biology	60
Environmental Studies (Biology)	
Applied Biology	
Botany	61
Zoology	62
Chemistry	63
Geology	64
Physics	65
General Science	67
Combined Science	
Physical Science	
Any combination of two sciences	
Other sciences:	68
Astrophysics	
Ornithology	
Astronomy	
Beekeeping	
Industrial Archaeology	
Meteorology	
Application of Physics	

Rural Sciences	69
Environmental Science (Rural)	
Rural Environmental Studies	
Agriculture	
Agricultural Science	
Horticulture	
Horticultural Science	
Forestry	
Farm Science	
Metalwork	70
Craft and design (Metal)	
Fabrication and Welding	
Technical Drawing	71
Geometrical Drawing	
Engineering Drawing	
Building Drawing	
Mechanical Drawing	
Drafting	
Woodwork	72
Craft and Design (Wood)	
Technical Studies (Woodwork)	
Carpentry	
Joinery	
Engineering	73
Engineering Science	
Applied Mechanics	
Technology	
Electricity and Electronics	
Electronics	
Engineering Design and Practice	
Engineering Workshop Theory and Practice	
Design and Technology	
Craft, Design and Technology	
Industrial Engineering	
Mechanical Engineering	
Foundry Engineering	
Motor Car Maintenance	74
Motoring Science	
Roadcraft	
Electrical Installation	
Home Maintenance	
Building and Homecraft	
Glass Technology	
Plastics	
Technical Studies (unspecified)	75
Technical Science	
Material Science	
Material and Applied Science	
Building Studies	
Brickwork	
Aeronautics	76
Elementary Aeronautics	
Aviation Studies	

Surveying	77
Engineering Studies I and II (SCE)	78
Rural Technology Agricultural Science	79
Sex Education Personal Relationships	80
Schoolleavers program work sampling	81
Consumer Education	82
Recreational Activities Leisure and Living Home and Leisure	83
Careers	84
Physical Education Sport, Health and Society	85
Gardening	86
Unclassifiable (eg. uninterpretable initials given) Education for Living Outdoor Activities	87
Related Studies (no clue to content) Integrated Studies " "	88
Creative Writing	89
Integrated Science Combined Science Additional General Science	90
Science of Living Daily Life Science	91
Human Biology Anatomy, Physiology and Health Human and/or Social Biology Health Education	92
Navigation Seamanship, signals and rules-of-the-sea Nautical knowledge Seamanship Seamanship and Nautical Knowledge	93
Combinations of a science and mathematics	94
History of Science History and Philosophy of Science	95

Philosophy	96
Logic	
Social Ethics	
Media Studies	97
Film Study	
TV and Film Study	
Film-making and Film Communication Studies	
Ballet	98
Graphics	
Photography	
Subject not given	99

4. GRADE AWARDED

Where only one grade awarded

<u>Grade</u>	<u>Code</u>
A or 1	10
B or 2	20
C or 3	30
D or 4	40
E or 5	50
F or 6	60
G or 7	70
H or 8	80
Unclassified; '0' level pass for 'A' level exam; compensatory '0' grade for SCE Higher Exam	90

Scholarship Level

Distinction	10
Merit	20
Unclassified	90

Some Scottish Certificate results were given as numbers (called 'ranges') which were coded as follows:

1,2,3,4, or 5	10
6,7	20
8,9	30
10,11	40
12,13	50
14	90

Percentages

In a few cases the grade was reported as a percentage. In these cases the actual percentage was coded for this item and a '4' entered in 'Other'.

'Pass' or 'Fail'

Sometimes a school indicated that an exam had been 'passed' or 'failed', but gave no grades. Grade was then left blank and the appropriate code entered in 'Other' (q.v.).

Where a school gave both a detailed grade and indicated 'pass' or 'fail', the grade was coded in the normal way, and the appropriate code entered in 'other'.

For Scotland, 'No Award' was treated as 'fail'.

Additional Codes

No grade given <u>and</u> no 'pass/fail'	99
Withdrawn (NB also coded as '7' in 'Other')	99
Absent for exam (NB coded '5' in 'Other')	blank

Where two grades given

There were two ways in which this could arise:

i) a joint GCE/CSE exam or Experimental 16+, where both a CSE and a GCE grades were awarded. The CSE result was then coded as a single digit in the first column of 'Grade' and the GCE result in the second column, and a '3' coded in 'Other'. If it was not clear which was which, they were coded in the order recorded by the school, and '2' entered in 'Other'.

ii) an examination which contained two, separately graded elements, usually a main written exam and a practical or oral. The main result was then coded as a single digit in the first column of 'Grade' and the subsidiary (practical or oral) result in the second column, and a '3' coded in 'Other'. If it was not clear which was which, they were coded in the order recorded on the original form by the school, and '2' entered in 'other'.

NB i) and ii) can be distinguished via Item 1 (Nature and level of exam and board) where all instances of i) will be coded '25' and ii) will be coded according to the exam concerned.

5. DATE OF EXAMINATION

Coded as month and year in the conventional way, eg January 1974 : 0174 etc.

If the school did not give the month '99' was entered in the first two columns.

If the school did not give the year, there is a '7' in the third column, and the fourth is left blank.

6. PLACE OF EXAMINATION

<u>Place</u>	<u>Code</u>
The school attended in 1974 (ie to which NCDS third follow-up information relates) - this includes cases where the person had left the school but entered the examination as an external candidate.	1
Another school (not 6th Form College)	2
Sixth Form College	3
College of Further Education	4
Technical College	
Polytechnic	
Home tutor	5
Approved school	
Prison	
Hospital	
Hospital School	
Community Home	
Tutorial College	6
Crammer	
Finishing School	
Other	7
Unclear	8
No answer given	9

7. OTHER

Result reported as 'pass', either instead of or in addition to grade being given	1
Two grades reported, not able to distinguish between them (ie for a joint 16+ exam or a main and subsidiary element - see 'Grades')	2
Two grades reported and either: i) first column of 'Grades' is CSE result and second column GCE result; or ii) first column of 'Grades' is main result and second is subsidiary	3
Grade is recorded as a two-digit percentage	4
Candidate was entered for exam but was absent	5
School has expressed some uncertainties about detail provided	6
Coder has been unable to resolve any ambiguities or uncertainties in the information provided	7
No grade is awarded for this examination (eg SCE Higher Greek or Latin optional paper III)	8
Result reported as 'fail', either instead of or in addition to grade being given	9

NATIONAL CHILD DEVELOPMENT STUDY - CODING FRAME FOR EXAM RESULTS II - SUMMARY MEASURES

Introduction

The file to which this document relates contains summary measures of the public examination results (Certificate of Secondary Education, General Certificate of Education, 'O' and 'A' level and the Scottish equivalents) for the members of the National Child Development Study.

The results were obtained by writing in 1978 to the schools which study members were known to attend at the time of the last follow up in 1974. Schools were asked to provide details of all CSE, GCE and (in Scotland) SCE examinations entered up to 1978. They were also asked to indicate when the individual was known to have gone on elsewhere (another school, sixth-form college, FE college etc) and might have taken more such examinations. In such cases those other institutions were also contacted and the relevant results obtained.

Results were obtained for a total of 14,331 individuals who were members of the cohort approximately 95% of those whose secondary school could be identified

A separate file is available which contains the data in the form in which it was supplied by schools, that is a string of information relating to each individual subject entry, identifying the type and level of exam, the board, mode, subject, grade awarded and date and place of the examination.

The data in that file can be used to create a variety of summary measures and no doubt many researchers will prefer to go to that original source in order to create measures for their own particular purposes. However, the National Children's Bureau has already created a number of summary measures for use in its own work - including some of those that are likely to be most commonly used, such as total number of entries, number of 'O' level 'passes', best result in certain subjects etc. This file contains a number of such measures.

Time and Place Constraints

Depending on the purpose of a particular analysis, it may be important to include only those examinations which were, for example, taken at the school to which NCDS third follow up data at the age of sixteen relates. Or it might be desirable to include only those results which were obtained by the 'conventional' time for taking the exam of that particular type.

For most summary measures, four versions have been created:

- a) includes those examinations by what might be considered the 'conventional' time (ie by 1974 for O-levels, CSEs and SCE O-grades and by 1976 for A-levels, SCE H-grades and Certificate of Sixth Year Studies - but excluding any retakes in November or December of those years - irrespective of where they were taken.
- b) includes only those examinations taken in the school attended at the time of the NCDS third follow-up, irrespective of when they were taken (up to when the data were collected in 1978).
- c) includes all exams taken in any place, at any time.
- d) includes only those exams taken in the school attended at the time of the third follow-up and within the time constraints in a).

In addition for many of the measures which relate to 'A' levels or 'H' grades, further versions will be found that include examinations taken at any school, at a sixth-form college or at a FE college.

Grade Equivalence

The majority of GCE 'O' level examinations taken by NCDS pupils were held in 1974 or earlier, before the adoption by examining boards of a common grading system. From 1975 all GCE boards awarded grades on a 6-point scale: A-E plus 'Ungraded'. Prior to that some boards had used a similar alphabetic system, some used a numeric scale, some reported only 'pass' or 'fail', and a few results were given as percentages. All the results obtained by NCDS pupils have been translated to the common grading system now in general use, and it will be seen that the description of the scales in the coding frame are in the terms of that common grading system.

The translation of grades awarded before 1975 and their equivalence to the current grading system are based on a joint statement issued by the GCE examining boards in April 1975. The details of this can be found in the introduction to the coding frame for the first file of NCDS examination results data.

Retakes

A "retake" has been defined as two or more examination entries which have the same subject code and the same type and level of examination, but differ in the date at which the examination was taken.

Such cases are only counted once in the summary scales. The retakes are ignored in measures of the total number of examinations, or of examinations of a particular type, entered. In measures of the 'best' result obtained in a particular subject

and of the number of results obtained at a particular grade, only the 'best' result is counted. Of course, exactly which result is counted will vary according to the time and place constraints imposed.

Double Entries

A small number of pupils were 'double entered', that is either entered for CSE and 'O' level in the same subject on the same occasion, or, for 'O' level, entered for one subject with more than one board.

All such entries are counted for variables E428-431 (total number of GCE 'O' level entries), E432-435 (total number of CSE entries), E436-442 (total number of GCE 'A' level entries), and E233 (total number of all entries at any time and at any place).

For all other variables such cases are treated as one entry only and, where appropriate, only the better result is counted.

NB. This means only one entry is counted in variables E340-342 (total number of all entries, constrained by time and/or place).

A small number of candidates sat an experimental 16+ examination which awarded both an O-level and a CSE grade. This is treated as one examination with the GCE grade being given priority, ie. it is included in CSE measures only if the O-level result was 'ungraded'.

'Zeros'

Particular care needs to be taken with the definition of zeros.

i) This file contains records for all those for whom a response was received from schools etc. Thus any individuals with records in other NCDS files, but who do not appear in this file, can be taken to be non-respondents for the exams data.

ii) For measures of total number of exams, or exams of a particular type, entered or 'passed', zero can be interpreted naturally as indicating that no such exams were entered, or 'passed'. However, for those scales which indicate the grade obtained in a particular type of exam or subject, a specific code, usually '8', is assigned to all those who did not enter the exam concerned.

iii) However, it must not be forgotten that this file contains the results of pupils in Scotland as well as England and Wales. Thus there will be people with no O-levels or not entered for a particular subject or CSE or O-level who did obtain Scottish O-grades, and vice-versa. For most analyses therefore it will be essential to condition on either variables E414 or E418 (entry patterns) and/or the region variable.

'0-9+'

For a number of variables the permitted codes are shown as '0-9+' or '0-30+'. This is to indicate the value 9 (or 30) is to be interpreted as 'nine or more' (or 'thirty or more').

Best Results in Subject Groups

Variables E443-505 and E506-568 give the best result obtained in various groups of subjects at, respectively, CSE or O-level, and A-level (these variables have not been created for the Scottish equivalents).

A verbal description of the groups of subjects concerned is given in this coding frame, but anyone wishing to identify exactly which subjects were counted as being in each group will need to refer to the coding frame for the raw examination data, where individual subject codes are given, and to the following definitions:

<u>Variables</u>		<u>Subject Code</u>
<u>CSE/O-level</u>	<u>A-level</u>	
E443-5	and E506-8	11-19
E446-8	and E509-11	10
E449-51	and E512-4	20,22
E452-4	and E51-7	26-29
E455-7	and E518-20	01-05, 21,24,25
E458-60	and E521-3	23
E461-3	and E524-6	60,61,62
E464-6	and E527-9	63,65
E467-9	and E530-2	66,67
E470-2	and E533-5	64
E473-5	and E536-8	35
E476-8	and E539-41	31,32
E479-81	and E542-4	30,33,34,36,37,38,39
E482-4	and E545-7	40,41,42,46
E485-7	and E548-50	43,44,45,47,48
E488-90	and E551-3	70-79
E491-3	and E554-6	50-53
E494-6	and E557-9	54,55,58,59
E497-9	and E560-2	56,57
E500-2	and E563-5	68,69,90,91,93,94,95
E503-5	and E566-8	21

'Alternative O-levels' and 'O-level pass awarded at A-level'

Scales of number of O-levels etc include the above as equivalent to an O-level 'pass'.

E232 Local Authority

This is the LA code of the educational institute from which the exams data were obtained

Where ever possible use the NCDS 3 educational questionnaire LA N2092 as E232 was less thoroughly checked

For coding see NCDS 3 coding frame page 56/0

- E233 Total number of Exams Entered; Any Time; Any Place 0-30+
- NB This is the item which identifies those people known to have taken no exams at all. For those taking no exams under other time and place constraints, see E340-E342
- E234 Total No of 'O' levels grades A-C and CSE Grade 1, By 1974, Any Place 0-9+
- E235 AsE234 At any time, at NCDS 3 school 0-9+
- E236 AsE234 At any time, any place 0-9+
- E237 As234 By 1974, at NCDS 3 School 0-9+
- E238 Total No of SCE O-grades, A-C By 1974, Any Place 0-9+
- E239 AsE238 Any Time, at NCDS3 School 0-9+
- E240 AsE238 Any Time any place 0-9+
- E241 AsE238 By 1974, at NCDS 3 school 0-9+
- E242 Total No of CSE Grades 1 By 1974, any place 0-9+
- E243 As E242, Any time, at NCDS 3 school 0-9+
- E244 As E242, Any time, any place 0-9+
- E245 As E242, By 1974, at NCDS 3 school 0-9+
- E246 Total No of CSE Grade 2 By 1974, any place 0-9+
- E247 As E246, Any time, at NCDS3 school 0-9+
- E248 As E246, Any time, any place 0-9+
- E249 As E246, By 1974, at NCDS 3 School 0-9+
- E250 Total No of CSE Grade 3 By 1974, any place 0-9+
- E251 As E250, Any time, at NCDS3 school 0-9+
- E252 As E250, Any time, any place 0-9+
- E253 As E250, By 1974, at NCDS3 school 0-9+

E254	<u>Total No of CSE Grades 4 By 1974, any place</u>	0-9+	
E255	<u>As E254, Any time, at NCDS 3 school</u>	0-9+	
E256	<u>As E254, Any time, any place</u>	0-9+	
E257	<u>As E254, By 1974, at NCDS 3 school</u>	0-9+	
E258	<u>Total No of CSE grades 5, By 1974, any place</u>	0-9+	
E259	<u>As E258, Any time, at NCDS 3 school</u>	0-9+	
E260	<u>As E258, Any Time, any place</u>	0-9+	
E261	<u>As E258, By 1974, at NCDS 3 school</u>	0-9+	
E262	<u>Best grade obtained in Maths at CSE, By 1974, any place</u>		
NB -	Maths = those subjects called	CSE Grade 1	1
	'Mathematics' only. Does not	Grade 2	2
	include eg, Statistics, Computer	Grade 3	3
	Science, Arithmetic, Mathematics	Grade 4	4
	for Living. For such subjects see	Grade 5	5
	E266-E269	Entered, but exam not	6
		taken	
		Unclear	7
		Exam not entered	8
		Ungraded	9
E263	<u>As E262, Any time, at NCDS 3 school</u>	1-9 (as E262)	
E264	<u>As E262, Any time, any place</u>	1-9 (as E262)	
E265	<u>As E262, By 1974, at NCDS 3 school</u>	1-9 (as E262)	
E266	<u>Best Grade obtained in other Maths at CSE, By 1974, any place</u>	1-9 (as E262)	
NB	'other Maths' = subjects which were not called simply 'Mathematics', but had mathematical content (see E262 for examples)		
E267	<u>As E266, Any time, at NCDS 3 school</u>	1-9 (as E262)	
E268	<u>As E266, Any time, any place</u>	1-9 (as E262)	
E269	<u>As E266, By 1974, at NCDS 3 school</u>	1-9 (as E262)	
E270	<u>Best Grade obtained in English at CSE, By 1974, any place</u>	1-9 (as E262)	
E271	<u>As E270, Any time, at NCDS 3 school</u>	1-9 (as E262)	
E272	<u>As E270, Any time, any place</u>	1-9 (as E262)	
E273	<u>As E270, By 1974, at NCDS 3 school</u>	1-9 (as E262)	
E274	<u>Best Grade obtained in Maths at O-level, By 1974, any place</u>		

NB Maths is defined as in E262	O-level, Grade A	1
	Grade B	2
	Grade C	3
	Grade D	4
	Grade E	5
	O-level pass at A-level	6
	Unclear	7
	Not entered + No Exam	8
	Ungraded	9
E275	<u>As E274, Any time, at NCDS 3 school</u>	1-9 (as E274)
E276	<u>As E274, Any time, any place</u>	1-9 (as E274)
E277	<u>As E274, By 1974, at NCDS 3 school</u>	1-9 (as E274)
E278	<u>Best Grade obtained in 'Further' or 'Additional Maths' at O-level, By 1974, any place</u>	1-9 (as E274)
E279	<u>As E278, Any time, at NCDS 3 school</u>	1-9 (as E274)
E280	<u>As E278, Any time, any place</u>	1-9 (as E274)
E281	<u>As E278, By 1974, at NCDS 3 school</u>	1-9 (as E274)
E282	<u>Best Grade obtained in Other Maths at O-level, By 1974, any place</u>	1-9 (as E274)
NB	'Other Maths' is defined as in E266.	
E283	<u>As E282, Any time, at NCDS 3 school</u>	1-9 (as E274)
E284	<u>As E282, Any time, any place</u>	1-9 (as E274)
E285	<u>As E282, By 1974, at NCDS 3 school</u>	1-9 (as E274)
E286	<u>Best Grade obtained in English Language at O-level, By 1974, Any place</u>	1-9 (as E274)
E287	<u>As E286, Any time, at NCDS 3 school</u>	1-9 (as E274)
E288	<u>As E286, Any time, any place</u>	1-9 (as E274)
E289	<u>As E286, By 1974, at NCDS 3 school</u>	1-9 (as E274)
E290	<u>Best Grade obtained in Maths at SCE O-grade, By 1974, any place</u>	
NB This does not include Scottish O-grades subject 'Arithmetic' (included in E294, E297)	SCE O - grade, Grade A	1
	Grade B	2
	Grade C	3
	Grade D	4
	Grade E	5
	O-grade pass at H-grade	6
	Unclear	7
	Not entered	8
	Ungraded	9
E291	<u>As E290, Any time, at NCDS 3 school</u>	1-9 (as E290)
E292	<u>As E290, Any time, any place</u>	1-9 (as E290)
E293	<u>As E290, By 1974, at NCDS 3 school</u>	1-9 (as E290)
E294	<u>Best Grade obtained in other Maths at SCE O-Grade, By 1974, any place</u>	1-9 (As E290)

- E295 As E294, Any time, at NCDS 3 school 1-9 (as E290)
- E296 As E294, Any time, any place 1-9 (as E290)
- E297 As E294, By 1974, at NCDS 3 school 1-9 (as E290)
- E298 Best Grade obtained in English at SCE 0-Grade, By 1974, any place 1-9 (as E290)
- E299 As E298, Any time, at NCDS 3 school 1-9 (as E290)
- E300 As E298, Any time, any place 1-9 (as E290)
- E301 As E298, By 1974, at NCDS 3 school 1-9 (as E290)
- E302 Best Grade obtained in Maths at A-level, By 1976, any place
- NB Maths = subjects called 'Mathematics' only and A-level Grade A 1
 'Pure and Applied Maths' as one subject. See Grade B 2
 E306-309 for Pure Maths and Applied Maths taken Grade C 3
 separately and E310-313 for other mathematical Grade D 4
 subjects. Grade E 5
 Grade F 6
 Unclear 7
 Not Entered + No Exam 8
 O-level pass at A-level 9
- E303 As E302, Any time, at NCDS 3 school 1-9 (as E302)
- E304 As E302, Any time, any place 1-9 (as E302)
- E305 As E302, By 1976, at NCDS 3 school 1-9 (as E302)
- E306 Best Grade obtained in Pure or Applied Maths at A-level, By 1976, any place 1-9 (as E302)
- NB This includes only Pure or Applied Maths taken as single subjects.
 When both subjects were entered, better result is counted.
- E307 As E306, Any time, at NCDS 3 school 1-9 (as E302)
- E308 As E306, Any time, any place 1-9 (as E302)
- E309 As E306, By 1976, at NCDS 3 school 1-9 (as E302)
- E310 Best Grade obtained in other Maths at A-level, By 1976, any place 1-9 (as E302)
- NB 'Other Maths' = Mathematical subjects not included in E302-E309, eg Statistics,
 Computer Science.
- E311 As E310, Any time, at NCDS 3 school 1-9 (as E302)
- E312 As E310, Any time, any place 1-9 (as E302)
- E313 As E310, By 1976, at NCDS 3 school 1-9 (as E302)
- E314 Best Grade obtained in English at A-level, By 1976, any place 1-9 (as E302)
- E315 As E314, Any time, at NCDS 3 school 1-9 (as E302)
- E316 As E314, Any time, any place 1-9 (as E302)
- E317 As E314, By 1976, at NCDS 3 school 1-9 (as E302)

E318 Best Grade obtained in Maths at SCE H-Grade, By 1976, any place

NB	'Maths' is defined as in E302	H-Grade, Grade A	1
		Grade B	2
		Grade C	3
		Grade D	4
		Grade E	5
		Unclear	7
	Not entered	8	
	0-Grade pass at H-grade	9	

E319 As E318, Any time, at NCDS 3 school 1-9 (as E318)E320 As E318, Any time, any place 1-9 (as E318)E321 As E318, By 1976, at NCDS 3 school 1-9 (as E318)E322 Best Grade obtained in other Maths at SCE H-Grade, By 1976, any place 1-9 (as E318)

NB 'Other Maths' = mathematical subjects not included in E318 eg Statistics, Computer Science etc.

E323 As E322, Any time, at NCDS 3 school 1-9 (as E318)E324 As E322, Any time, any place 1-9 (as E318)E325 As E322, By 1976, at NCDS 3 school 1-9 (as E318)E326 Best Grades obtained in English at SCE H-grade, By 1976, any place 1-9 (as E318)E327 As E326, Any time, at NCDS 3 school 1-9 (as E318)E328 As E326, Any time, any place 1-9 (as E318)E329 As E326, By 1976, at NCDS 3 school 1-9 (as E318)E330 Best Grade obtained in Maths at Scottish Certificate of Sixth Year Studies, By 1976, any place

CSYS	Grade A	1
	Grade B	2
	Grade C	3
	Grade D	4
	Grade E	5
	Unclear	7
	Not entered	8

E331 As E330, Any time, at NCDS 3 school 1-8 (as E330)E332 As E330, Any time, any place 1-8 (as E330)E333 As E330, By 1976, at NCDS 3 school 1-8 (as E330)Variables E334-E339 were not used and are blankE340 Total No of Exams entered, by 1974, any place (of E233) 0- 30+E341 As E340, Any time, at NCDS 3 school 0-30+E342 As E340, By 1974, at NCDS 3 school 0-30+

E343	<u>Total No of A-levels, Grades A-E, Any time, at any school</u>	0-9
NB	This is A-levels obtained at any school	
E344	<u>As E343, Any time, at NCDS 3 school</u>	0-9
E345	<u>As E343, Any time, at any FE college</u>	0-9
E346	<u>As E343, Any time, at any Sixth-Form College</u>	0-9
E347	<u>As E343, By 1976, any place</u>	0-9
E348	<u>As E343, By 1976, at NCDS 3 school</u>	0-9
E349	<u>As E343, Any time, any place</u>	0-9
E350	<u>Total No of SCE H-Grade Passes, (Grade C or better), At any time, at any school</u>	0-9
E351	<u>As E350, Any time, at NCDS 3 school</u>	0-9
E352	<u>As E350, Any time, at any FE College</u>	0-9
E353	<u>As E350, Any time, at any Sixth Form College</u>	0-9
E354	<u>As E350, By 1976, any place</u>	0-9
E355	<u>As E350, By 1976, at NCDS School</u>	0-9
E356	<u>As E350, Any time, any place</u>	0-9
E357	<u>A-level Grades (UCCA scale), Any time, at any school</u>	0-15
NB	This score is obtained by summing the grades obtained (A=5, D=4 etc E=1), at A-level. If more than three A-levels, the best three results are counted.	
E358	<u>As E357, Any time, at NCDS 3 school</u>	0-15
E359	<u>As E357, Anytime, at any FE college</u>	0-15
E360	<u>As E357, Any time, at any Sixth Form college</u>	0-15
E361	<u>As E357, By 1976, any place</u>	0-15
E362	<u>As E357, By 1976, at NCDS 3 school</u>	0-15
E363	<u>As E357, Any time, any place</u>	0-15
E364	<u>H-Grades (UCCA scale), Any time, at any school</u>	0-15
NB	This score is obtained by summing the grades obtained (A=3, B=2, C=1) at H-Grade. If more than five H-grades, the best five are counted.	
E365	<u>As E364, Any time, at NCDS3 school</u>	0-15
E366	<u>As E363, Any time, at any FE College</u>	0-15
E367	<u>As E364, Any time, at any Sixth Form College</u>	0-15
E368	<u>As E364, By 1976, any place</u>	0-15
E369	<u>As E364, By 1976, at NCDS 3 school</u>	0-15
E370	<u>As E364, Any time, any place</u>	0-15

E371	<u>Total No of Grades A obtained at SCE O-Grade, By 1974, any place</u>	0-9
E372	<u>As E371, Any time, at NCDS 3 school</u>	0-9
E373	<u>As E371, Any time, any place</u>	0-9
E374	<u>As E371, By 1974, any place</u>	0-9
E375	<u>Total No of Grades B obtained at SCE O-Grade, By 1974, Any place</u>	0-9
E376	<u>As E375, Any time, At NCDS 3 school</u>	0-9
E377	<u>As E375, Any time, any place</u>	0-9
E378	<u>As E375, By 1974, at NCDS 3 school</u>	0-9
E379	<u>Total No of Grades C obtained at SCE O-Grade, By 1974, any place</u>	0-9
E380	<u>As E379, Any time, at NCDS 3 school</u>	0-9
E381	<u>As E379, Any time, any place</u>	0-9
E382	<u>As E379, By 1974, at NCDS 3 school</u>	0-9
E383	<u>Overall Examination Achievement Scale (England and Wales) O-level and CSE by 1974, A-level by 1976, any place</u>	
NB	Each individual is placed at their highest point of achievement on this scale.	
	No graded result at CSE or GCE	0
	One or more O-levels at grades 4 or 5 only	1
	One or more CSE at grades 4 or 5 only	2
	One to four CSE at grades 2 to 5, with at least one grade 2 or 3	3
	Five or more CSE at grades 2 to 5, with at least one grade 2 or 3	4
	One to four O-levels, grades A-C, or CSE grade 1	5
	Five or six O-levels, grades A-C, or CSE grade 1	6
	Seven or more O-levels, grades A-C, or CSE grade 1	7
	One A-level pass	8
	Two A-level passes, less than 9 points on UCCA scale	9
	Three or more A-level passes, less than 9 points on UCCA scale	10
	Two A-level passes, nine or more points on UCCA scale	11
	Three or more A level passes, nine or more points on UCCA scale	12
E384	<u>As E383, Any time, at NCDS 3 school</u>	0-12 (As E383)
E385	<u>As E383, Any time, any place</u>	0-12 (As E383)
E386	<u>As E383, O-level & CSE by 1974, A-level by 1976, at NCDS 3 school</u>	0-12 (As E383)

E387 Overall Examination Achievement Scale (Scotland), O-grade by 74,
H-grade by 76, any place

NB	Each individual is placed at their highest point of achievement on this scale.	No graded SCE result	0
		One or two O-grades (any grade)	1
		Three or four O-grades (any grade)	2
		One to five O-grades (all grades A to O)	3
		Five or six O-grades (any grade)	4
		Five or six O-grades (all grades A to C)	5
		Seven or more O-grades (grades A to E)	6
		One H-grade (grades A to C)	7
		Two H-grades (grades A to C)	8
		Three or more H-grades, less than 9 points on UCCA scale	9
Three or more H-grades, 9 or more points on UCCA scale	10		

E388 As E387, Any time, at NCDS 3 school 0-10 (As E387)

E389 As E387, Any time, any place 0-10 (As E387)

E390 As E387, O-Grades by 74, H-grades by 76, at NCDS 3 school 0-10 (As E387)

E391 Mathematics Achievement Scale (England and Wales) O-level & CSE by 1974,
A-level by 1976

NB	Each individual is placed at their highest point of achievement on this scale.	No graded CSE or GCE result	0
		CSE grade 5	1
		CSE grade 4	2
		O-level grade D or E	3
		CSE grade 2 or 3	4
		O-level Grade C	5
		O-level grade B, or O-level pass at A-level, or CSE grade 1	6
		O-level grade A	7
		A-level grade E	8
		A-level grade D	9
		A-level grade C	10
		A-level grade B	11
A-level grade A	12		

E392 As E391, Any time, at NCDS 3 school 0-12 (as E391)

E393 As E391, Any time, any place 0-12 (as E391)

E394 As E391, CSE & O-level by 74, A-level by 76, at NCDS 3 school 0-12 (as E391)

E395 English Achievement Scale (England and Wales) CSE & O-level by 1974, A-level
by 1976, any place 0-12 (as E391)

E396 As E395, Any time, at NCDS 3 school 0-12 (as E391)

E397 As E395, Any time, any place 0-12 (as E391)

E398 As E395, CSE & O-level by 74, A-level by 76, at NCDS 3 school 0-12 (as E391)

E399 Mathematics Achievement Scale (Scotland, O-grades by 74, H-grades by 76, any
place

NB Each individual is placed at their highest point of achievement on this scale.

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No graded SCE result	0
O-grade E	1
O-grade D	2
O-grade C	3
O-grade B	4
O-grade A	5
H-grade C	6
H-grade B	7
H-grade A	8

E400	<u>As E399, Any time at NCDS 3 school</u>	0-8 (As E399)
E401	<u>As E399, Any time, any place</u>	0-8(As E399)
E402	<u>As E399, O-grade by 74, H-grade by 76, at NCDS 3 school</u>	0-8 (As E399)
E403	<u>English Achievement Scale (Scotland), O-grade by 74, H-grade by 76, any place</u>	0-8 (As E399)
E404	<u>As E403, Any time, at NCDS 3 school</u>	0-8 (As E399)
E405	<u>As E403, Any time, any place</u>	0-8 (As E399)
E406	<u>As E403, O-grade by 74, H-grade by 76, at NCDS 3 school</u>	0-8 (As E399)
<u>E407-E413 were not used.</u>		
E414	<u>Overall entry patterns (England and Wales), Any time, any place</u>	
	No Entry	0
	Entered for CSE only	1
	Entered for GCE O-level only	2
	Entered for CSE and GCE O-level	3
	Entered for CSE and GCE A-level (but not GCE O-level)	4
	Entered for GCE O and A-level (but not CSE)	5
	Entered for GCE A-level only (not O-level or CSE)	6
	Entered for CSE and GCE O-level and GCE A-level	7
E415	<u>Overall entry pattern (Scotland), Any time, any place</u>	
	No Entry	0
	Entered for SCE O-grade only	1
	Entered for SCE H-grade only	2
	Entered for O-grade and H-grade	3
E416	<u>Total No of GCE O-level grades A obtained, By 1974, any place</u>	0-9+
E417	<u>As E416, Any time, at NCDS 3 school</u>	0-9+
E418	<u>As E416, Any time, any place</u>	0-9+
E419	<u>As E416, By 1974, at NCDS 3 school</u>	0-9+
E420	<u>Total No of O-levels grade B obtained, By 1974, any place</u>	0-9+
NB	This includes CSE grade 1, results where 'pass' was reported, but no grade given, and O-level pass at A-level.	
E421	<u>As E420, Any time at NCDS 3 school</u>	0-9+

E422	<u>As E420, Any time, any place</u>	0-9+
E423	<u>As E420, By 1974, at NCDS 3 school</u>	0-9+
E424	<u>Total No of O-levels, grade C obtained, By 1974, any place</u>	0-9+
E425	<u>As E424, Any time, at NCDS 3 school</u>	0-9+
E426	<u>As E424, Any time, any place</u>	0-9+
E427	<u>As E424, By 1974, at NCDS 3 school</u>	0-9+
E428	<u>Total No of GCE O-levels entered, By 1974, any place</u>	0-30
E429	<u>As E428, Any time, at NCDS 3 school</u>	0-30
E430	<u>As E428, Any time, any place</u>	0-30
E431	<u>As E428, By 1974, at NCDS 3 school</u>	0-30
E432	<u>Total No of CSEs entered, By 1974, any place</u>	0-30
E433	<u>As E432, Any time, at NCDS School</u>	0-30
E434	<u>As E432, Any time, any place</u>	0-30
E435	<u>As E432, By 1974, at NCDS 3 school</u>	0-30
E436	<u>Total No of A-levels entered, By 1976, at any school</u>	0-30
E437	<u>As E436, Any time, at NCDS 3 school</u>	0-30
E438	<u>As E436, Any time, at FE College</u>	0-30
E439	<u>As E436, Any time, at Sixth Form College</u>	0-30
E440	<u>As E436, By 1976, any place</u>	0-30
E441	<u>As E436, By 1976, at NCDS 3 school</u>	0-30
E442	<u>As E436, Any time, any place</u>	0-30

E443-E505

These variables give the best result of CSE or O-level obtained in various subjects or groups of subjects. There are three versions of each variable, in this order:

- a) based on results obtained by 1974, irrespective of where taken.
- b) results obtained at any time, taken at the school attended at the time of the NCDS 16-year follow-up.
- c) results obtained at any time, at any place.

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For each variable, codes are:

O-level, grade A or B	1
O-level, grade C, or CSE, grade 1	2
O-level, D or E, or CSE, 2 or 3	3
CSE, 4 or 5	4
Any other result	5
No entry in this subject or group	6

For a more detailed definition of the subject groups, see introduction.

E443-5 Best Result at CSE or O-level in Modern Languages other than French

E446-8 French

E449-51 English and English Language

E452-4 Art, Music, Craft and Drama

E455-7 Other Arts (English Lit, Classical languages and Studies, Religious Subjects, History of Art)

E458-60 History

E461-3 Biology, Botany and Zoology

E464-6 Chemistry

E467-9 General and Combined Sciences

E470-2 Geology

E473-5 General Studies

E476-8 Law and Economics

E479-81 Other Social Sciences (Geography, Sociology, Government and Politics, Social Studies, Humanities)

E482-4 Domestic Sciences

E485-7 Commercial Subjects

E488-90 Technical subjects

E491-3 Mathematics (only)

E494-6 Other Maths (but see below)

E497-9 Statistics, Computing

E500-2 Other Sciences

E503-5 Physics

E506-E568

These variables are exactly as E446-E505, ie same subject groupings, same versions (but, where appropriate, by 1976 instead of 1974) and same order; but contain the best result obtained at A-level. Codes are as follows:

A-level, grades A-E	1
O-level pass at A-level	2
Ungraded	3
No entry in this subject or group	4