

18 Year Twin Questionnaire Coding: all cohorts

In this document, the layout and formatting of the original questionnaires (in several versions) have been changed, in order to accommodate variable names and value codes, and in order to accommodate changes in version between cohorts. Where relevant, changes between cohorts are annotated in this document.

The most significant changes were made between the cohort 1 and cohort 2 versions. Some of these changes required a restructuring of the cohort 1 data, in a few items, for compatibility with later cohorts. This restructuring was done permanently in the raw data. Subsequent changes, from cohort 2 to cohorts 3 and 4, were more straightforward, involving the additional or removal of some extra questions at the end.

This document shows the variable names used in the **raw data (blue)** and in the **analysis dataset (red)**. For categorical variables, this document also shows the numeric coding used for different responses. In most cases, the same value coding has been used in the dataset as in the raw data, so the codes are only shown once **in red**. Where there are many possible different responses for a question, the coding is listed separately in an appendix at the end of this document.

Some of the questions invite text responses from the twins. These were coded during data entry into numeric categorical variables. The original text responses have not been retained in the raw data, but the coded responses have been retained and are used in the dataset.

Variables in the analysis dataset

Variable names and value codes are shown in RED. For this 18 year questionnaire, all variable names have the prefix 'rcq' ('r' signifies age 18, 'c' signifies child or twin reported data, 'q' signifies the questionnaire study).

All items in this questionnaire are specific to a particular twin. In the dataset, the items have been double entered, with one row of data per twin, and with both twin and cotwin data in each row. To distinguish between twin and cotwin variables, variable names in the dataset end in '1' (for the twin identified in a given row of data) or '2' (for the cotwin). Note that these variable name endings do not denote elder or younger twin specifically. Hence this document shows dataset variable names ending in '1/2' to indicate that each variable occurs twice, once for the twin and once for the cotwin.

Variables in the raw data

The raw data are entered and stored in an Access database. Variable names are shown in BLUE. These differ from the variable names in the analysis dataset, which are shown in red as mentioned above.

The value codes used in the raw data are generally identical to those used in the analysis dataset, so the value codes (shown in red) have not been duplicated. In a few exceptional cases, where coding differs between the raw data and the dataset, the raw data value codes are additionally shown in blue.

There are a few questions for which verbatim text responses were elicited, but as noted above such responses were coded into numeric category variables at the time of data entry.

Note that in the raw data, the value -99 is used to denote a missing value, and the value -77 is used to denote 'not applicable' (in the analysis dataset, both of these values are recoded to missing). For qualifications (A-levels, BTEC/Diploman/NVQ) for which a subject is recorded, the subject names are coded - see appendices 1 and 2 below - and the default coded value if missing is 1 (again recoded to missing in the analysis dataset).



Twin ID: TwinID (unique twin identifier, 7/8 digits, used in raw data but not in dataset)

Name: (not recorded in data)

TwinData rcqdata1/2: data flag (1=data present) recorded at the time of data entry

TEDS 18-YEAR STUDY

Background questions

1. Thinking back over the **past 12 months**, which of the following best describes what you have been doing **most of the time**.

Tick one box only: **Background1** rcqback11/2

- 1 Studying
- 2 Working
- 3 Apprenticeship or other employment training
- 4 Gap year
- 5 Unemployed
- 6 Full time parent

2. Thinking ahead to the **next 12 months**, which of the following best describes what you expect to be doing **most of the time**.

Tick one box only: **Background2** rcqback21/2

- 1 Studying
- 2 Working
- 3 Apprenticeship or other employment training
- 4 Gap year
- 5 Unemployed
- 6 Full time parent

3. Thinking ahead to the **next 12 months**, where do you expect to be living:

Tick one box only: **Background3** rcqback31/2

- 1 I will live with one or both of my parents
- 2 I will stay at university/college during term time, and with my parents during holidays
- 3 I will have my own permanent address
- 4 I will be travelling, working overseas, or at another temporary address

Educational Qualifications

4. Please tell us about your **post-16** studies. By this, we mean courses normally done immediately after your GCSE year, like **A/AS-levels** or **level 3** BTEC or NVQ. Have you finished your post-16 studies? `Post16Studies rcqqual1/2`

- 1 Yes, I **finished** my post-16 studies in **2013** * or earlier.
- 2 No, I am **continuing** with my post-16 studies and expect to finish in **2014** *.
- 3 No, I am **continuing** with my post-16 studies and expect to finish in **2015** * or later.
- 4 No, I have **not studied** for post-16 qualifications

[This was changed from cohort 1, where there was a simpler yes/no question asking whether post-16 qualifications had been completed. The cohort 1 data were subsequently restructured into the 4 categories shown above.]

* The wording here was changed from cohort to cohort to show appropriate years.

If **No**, please skip question 5 and go to question 6 on the next page.

If **Yes**, please answer question 5 below.

5. a) If you have completed your A-levels, please record your A- and AS-level results below:
6. (up to six A- or AS-levels were recorded in the raw data; the same subject could not be recorded as both an AS level and an A level because an AS level result is subsumed into a subsequent A level result.)

A or AS? Coding: 0.5=AS, 1=A	Subject Coded numerically with values from 2 upwards; new subjects and codes added during data entry (see appendix 1 for subjects and codes)	Grade Coding: 1=E, 2=D, 3=C, 4=B, 5=A, 6=A*
AlevelType1	AlevelSubject1	AlevelGrade1
AlevelType2	AlevelSubject2	AlevelGrade2
AlevelType3	AlevelSubject3	AlevelGrade3
AlevelType4	AlevelSubject4	AlevelGrade4
AlevelType5	AlevelSubject5	AlevelGrade5
AlevelType6	AlevelSubject6	AlevelGrade6

Detailed A-level result variables are not generally shared for analysis. Many sets of A-level results are unique, memorable to participants and hence potentially identifiable. Also, the large number of different subjects, often with very small Ns, are difficult to analyse.

Instead, composites have been provided in the dataset as follows (see derived variables page for details of how they were computed).

Derived variable description	Variable name	Values
Number of A level results	rcqaln1/2	0 - 6 (integer)
Number of AS level results	rcqasn1/2	0 - 6 (integer)
Overall mean grade for A levels	rcqalgrdml/2	1 - 6 (decimal)
Overall mean grade for A and AS levels	rcqalsgrdml/2	1 - 6 (decimal)
Overall point score for A levels	rcqalpsct1/2	0 - 36 (decimal)
Overall point score for A and AS levels	rcqalspsct1/2	0 - 36 (decimal)
English mean grade	rcqalsenggrdml/2	1 - 6 (decimal)
Maths mean grade	rcqalsmatgrdml/2	1 - 6 (decimal)
Science subjects mean grade	rcqalsscigrdml/2	1 - 6 (decimal)
Technology subjects mean grade	rcqalstecgrdml/2	1 - 6 (decimal)
Humanities subjects mean grade	rcqalshumgrdml/2	1 - 6 (decimal)
Language subjects mean grade	rcqalslangrdml/2	1 - 6 (decimal)
Vocational subjects mean grade	rcqalsvocgrdml/2	1 - 6 (decimal)

See appendix 1 below for grouping of subjects (humanities, technology, etc) for the latter variables.

b) If you have completed your level 3 BTEC/NVQ/Diploma, please record your results below:

(a maximum of one NVQ and one Diploma or BTEC could be recorded in the data; the same subject codes were used for NVQs and for Diplomas/BTECs, but these are different from the A/AS level subject codes)

	Type (e.g. NVQ, BTEC) See below for coding	Subject Coded numerically into broad subject groups or types (see appendix 2 for list of codes)	Grade See below for coding
NVQ:	(NVQ does not have sub-types)	NvqSubject rcqnvqsub1/2	(NVQ passes are not graded)
BTEC or Diploma:	DiplomaType rcqdip1/2	DiplomaSubject rcqdipsub1/2	DiplomaGrade rcqdipgrd1/2

BTEC grade coding: 1=Pass (P), 3=Merit (M), 5=Distinction (D), 6=Distinction* (D*)
Advanced/Progression Diploma grade coding: 1=E, 2=D, 3=C, 4=B, 5=A, 6=A*

Diploma/BTEC types were coded as follows. The rcqdipval1/2 variable represents the assumed number of A-level equivalents; this is not recorded as a separate variable in the raw data, but is added in the dataset as a recoded variable from rcqdip1/2.

Type of qualification	DiplomaType rcqdip1/2 coding	rcqdipval1/2 coding
BTEC Extended Diploma (or Advanced Diploma)	1	3
BTEC Diploma (or Progression Diploma)	2	2
BTEC Subsidiary Diploma	3	1

c) If you have completed other post-16 qualifications, please give details below:

Responses to this question were coded into the two variables shown below. [Slightly different categories were used in cohort 1 but, with text responses where given, these were restructured into the categories shown in the table.]

Extended Project (EPQ): please state your grade: _____

- EPQgrade rcqepqrd1/2.
Coding: 1=E, 2=D, 3=C, 4=B, 5=A, 6=A*
OtherQual rcqothqual1/2:

- 1 Scottish Highers
 2 Welsh Baccaureate
 3 International Baccaureate (IB)
 4 Any overseas (non-UK) qualifications
 5 UK qualifications at level 1 or level 2
 6 Any other qualifications (Other UK level 3 qualifications)
7 A/AS levels with unspecified grades

While rcqothqual1/2 records the existence of these latter qualification types, they are difficult or impossible to equate to A-levels in terms of value for analysis, hence they have not been incorporated into achievement composites.

Use the space below to provide further details of any of your qualifications:

(Any text recorded here was used to recode category results above. The text has not been retained in the data.)

Other related composite variables, based on responses for A-levels, diplomas and other qualifications (see derived variables page for details):

rcqqstatus1/2: broad category of post-16 results types (coded 0-4)

rcqcast1/2: estimated UCAS score, calculated from all eligible results

University or Higher Education

7. Have you entered, or are you about to enter, **university** (or a **higher education college**)? By this, we mean a college where you will be doing a degree or equivalent level 4 course.

University rcqhel/2

- 1 No **Please go to question 8 on the next page**
 2 Yes **Please answer question 7 below**

[In cohort 1, this question had two alternative 'yes' responses but these were both recoded as 'yes' as shown above.]

8. **If you have accepted a place at university** (or at higher education college), please provide details below:

(a) Type of university/college:

UniType rcqheityp1/2
(this question was not included in cohort 1 but the categories could be inferred from other responses below)

- 1 UK university
 2 Overseas (non-UK) university
 3 Higher Education College

(b) Name of university/college:

(original text has not been retained, but was coded into the category variable below at the time of data entry)

UniversityUK rcqheunil/2

(numerically coded from a fixed list of UK universities; see appendix 3 for list of codes; overseas universities, or non-university colleges, were not coded)

(c) Name of course:

(original text has not been retained, but was coded into the category variable below at the time of data entry)

UniCourseType rcqhectyp1/2 (numerically coded generic course type: 1=Natural Sciences, 2=Mathematics and Statistics, 3=Medicine/Veterinary, 5=Engineering, 6=Technology/Design, 7=Computing/IT, 9=Social Sciences, 10=Arts, 11=Humanities, 12=Languages, 15=Law, 30=Education, 31=Business/Management, 32=Environment/Development, 33=Nursing/Therapy, 34=other vocational)

(d) When will you start? (or when did you start?)

UniCourseStart
rcqhesttml1/2

- 1 2012 (or earlier) *
 2 2013 *
 3 2014 (deferred entry) *

(e) Type of qualification (tick one)

UniQualType rcqheqtyp1/2

- 1 Bachelor's degree (BA, BSc, LLB, BEd, BEng, etc)
 1 Master's degree (MA, MSc, MEng, etc)
 2 Foundation course
 3 HNC or HND
 4 Higher Education Certificate/Diploma (CertHE or DipHE)
 5 Level 4 qualification (NVQ, BTEC, etc)
 6 Other - please specify:
(Original free text has not been retained. Recoded into values 1-5 if applicable, otherwise coded as value 6.)

(slightly different categories were used in cohort 1 but these were easily recoded as shown)

* the wording of the responses in part (d) was changed for each cohort to reflect the year when data were being collected.

(f) How will you finance your studies? (tick all that apply)

Coding in raw data: true=ticked, false=not ticked

Coding in dataset: 1=ticked, 0=not ticked

UniFinanceMaintenance

rcqhefmnt1/2

Maintenance (living costs) loan

UniFinanceTuition

rcqheftui1/2

Tuition fees loan

UniFinanceBursary

rcqhefbrs1/2

University bursary or scholarship

UniFinanceGrant

rcqhefgrn1/2

Government grant or other funds

UniFinanceParents

rcqhefpar1/2

Assistance from your parents

UniFinanceWork

rcqhefwrk1/2

Part-time or occasional work

UniFinanceEmployer

rcqhefemp1/2

Assistance from a current or future employer (e.g. NHS bursary)

[The wording in cohort 1 was slightly different but the categories were the same]

Employment or Apprenticeship

9. Do you expect to have a **permanent** job or apprenticeship **over the next year**?

Employment rcqemp1/2

- 1 **No**, I will be at university/college, unemployed, or only doing occasional work
- 2 **No**, I will be taking a **gap year** and doing temporary work only
- 3 **Yes**, I will have a **permanent job**
- 4 **Yes**, I will be an **apprentice** or in some other type of work training

[The gap year response was not included in cohort 1, but this could be inferred from responses at the start of the questionnaire.]

10. **If yes**, please provide further details of your permanent job or apprenticeship:

- (a) Have you already started work? 1 No, not yet
EmpStarted rcqempst1/2 2 Yes, started a year or more ago
 3 Yes, started earlier this year

- (b) Will you be working full time? 1 Yes, full time
EmpFT rcqempft1/2 2 No, part time

(c) Please state your job title, or describe the work you do:

(original text has not been retained, but was coded into the category variable below at the time of data entry)

Coded during data entry to approximate SOC major groups:

EmpSoc rcqempsoc1/2

coding:

- 1=managers and senior officials,
- 2=professional occupations,
- 3=associate professional and technical occupations,
- 4=administrative and secretarial,
- 5=skilled trades,
- 6=personal services,
- 7=sales and customer service,
- 8=process, plant and machine operatives,
- 9=elementary occupations

Past School Information

These questions were added for cohort 3, so they are missing for cohorts 1 and 2. Three of the questions (marked with * below) were subsequently dropped for cohort 4.

Please only answer the questions below if you attended school in the UK.

If you are unsure about any questions, please leave them blank.

Raw data: all items coded 1=Yes, 2=No. Dataset: all items coded 1=Yes, 0=No.		When you took your GCSEs		After GCSEs (if applicable)		
		Yes	No	Yes	No	
		1	2	1	2	
		1	0	1	0	
Were you home educated (did not attend school)?	SchoolHomeEdGCSE rcqschomg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolHomeEdAfter rcqschoma	<input type="checkbox"/>	<input type="checkbox"/>
Was your school...						
a comprehensive (non-selective) school?	SchoolCompGCSE rcqsccomg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolCompAfter rcqsccoma	<input type="checkbox"/>	<input type="checkbox"/>
a grammar (selective) school?	SchoolGramGCSE rcqscgrmg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolGramAFTER Rcqscgrma	<input type="checkbox"/>	<input type="checkbox"/>
an independent (private) school?	SchoolIndGCSE rcqscindg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolIndAfter Rcqscinda	<input type="checkbox"/>	<input type="checkbox"/>
a special school (for special needs students)?	SchoolSpecGCSE rcqscspcg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolSpecAfter Rcqscspca	<input type="checkbox"/>	<input type="checkbox"/>
a sixth-form/further education college?	SchoolSixthGCSE rcqscsxfg *	<input type="checkbox"/>	<input type="checkbox"/>	SchoolSixthAfter Rcqscsxfa	<input type="checkbox"/>	<input type="checkbox"/>
a faith school, e.g. Catholic?	SchoolFaithGCSE rcqscfthg *	<input type="checkbox"/>	<input type="checkbox"/>	SchoolFaithAfter Rcqscftha	<input type="checkbox"/>	<input type="checkbox"/>
an Academy?	SchoolAcadGCSE rcqscacdg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolAcadAfter Rcqscacda	<input type="checkbox"/>	<input type="checkbox"/>
single-sex?	SchoolSingGCSE rcqscsisg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolSingAfter Rcqscsisa	<input type="checkbox"/>	<input type="checkbox"/>
a boarding school?	SchoolBoardGCSE rcqscbrdg *	<input type="checkbox"/>	<input type="checkbox"/>	SchoolBoardAfter Rcqscbrda	<input type="checkbox"/>	<input type="checkbox"/>
Did your twin go to the same school?	SchoolSameGCSE rcqscetsmg	<input type="checkbox"/>	<input type="checkbox"/>	SchoolSameAfter rcqscetsma	<input type="checkbox"/>	<input type="checkbox"/>
In English, were you taught by the same teacher as your twin?	SchoolEngSame rcqscetsmen	<input type="checkbox"/>	<input type="checkbox"/>			
In Maths, were you taught by the same teacher as your twin?	SchoolMatSame rcqscetsmma	<input type="checkbox"/>	<input type="checkbox"/>			
In Science, were you taught by any of the same teachers as your twin?	SchoolSciSame rcqscetsmsc	<input type="checkbox"/>	<input type="checkbox"/>			

* These three questions were dropped for cohort 4, hence they are only present for cohort 3.

Estimated GCSE school type category, derived from responses above, is provided in variable rcqscstypg1/2, coded 0-5. See derived variables page for details.

**Thank you for answering our questions.
We really appreciate your help.**

Appendices: coding of qualification subjects and universities attended

Appendix 1: list of A and AS Level subject codes

Raw data variables AlevelSubject1/2/3/4/5

The table also shows the subject category used for deriving mean grades.

code	A level or AS level subject	subject category
2	Mathematics	Maths
3	Biology	Science
5	Chemistry	Science
6	Physics	Science
7	Law	Humanities
8	Psychology	Humanities
9	Business Studies	Vocational
10	Art	Humanities
11	History	Humanities
12	French	Language
13	Statistics	Maths
14	English Literature	English
15	Geography	Humanities
16	Design and Technology	Technology
17	PE (Physical Education)	Vocational
18	German	Language
19	Further Mathematics	Maths
20	Economics	Humanities
21	Photography	Vocational
22	General Studies	Humanities
24	Computing	Technology
25	Sociology	Humanities
26	Music	Humanities
27	Performance Studies	Humanities
30	Product Design	Technology
31	Geology	Science
33	Spanish	Language
34	Graphics	Technology
35	Religious Studies	Humanities
36	Critical Thinking	Humanities
37	ICT	Technology
38	Media Studies	Humanities
41	Government and Politics	Humanities
43	Textiles	Technology
45	Philosophy and Ethics	Humanities
46	Health and Social Care	Vocational
48	English Language and Literature	English
49	Travel and Tourism	Vocational
51	English Language	English
52	Archaeology	Humanities
53	Classical Civilisation	Humanities
55	Drama	Humanities
57	Music Technology	Technology
59	Theatre Studies	Humanities

code	A level or AS level subject	subject category
60	Citizenship	Humanities
64	Environmental Studies	Humanities
65	Accounting	Vocational
66	Dance	Humanities
67	Film Studies	Humanities
70	Sports Science	Science
72	Art and Design	Humanities
73	Latin	Language
75	Applied Science	Science
85	Communication and Culture	Humanities
88	History of Art	Humanities
89	Technology	Technology
103	Further Mathematics (additional)	Maths
113	Business Studies (additional)	Vocational
120	Sports Studies	Vocational
126	English	English
138	Maths Mechanics	Maths
169	Other foreign language	Language
170	Other vocational	Vocational

Appendix 2: coding for NVQ, BTEC and Diploma subject types

Variables `NvqSubjectGroup` `rcqnvqsub1/2`
and `DiplomaSubjectGroup` `rcqdipsub1/2`

Twins reported very many different detailed subject names, but for ease of coding and analysis these were recoded (at data entry) into the broader groups listed below.

code	NVQ, BTEC or Diploma subject
1	(select)
2	Business, Finance, Retail
3	Sports, Physical health
4	Media, Arts
5	Engineering, Construction, Building
6	Fashion, Beauty, Hair
7	Leisure, Tourism, Catering
8	IT, ICT, Computing
9	Public services
10	Social Care
11	Agriculture, Animal Care
12	Performing Arts
13	Design
14	Technology, Applied Science
15	Child care

Appendix 3: coding for UK universities

Variable `UniversityUK` `rcqheunil/2`

Rare or unusual universities were coded into one of the 'other' categories at the end of the table.

code	UK university name
3	Aberystwyth University
4	Anglia Ruskin University
5	Arts, University of the (London)
6	Aston University, Birmingham
7	Bangor University
8	Bath Spa University
9	Bath, University of
10	Bedfordshire, University of
12	Birmingham City University (formerly Central England)
13	Birmingham, University of
16	Bournemouth University
18	Brighton, University of
19	Bristol, University of
20	Brunel University
23	Cambridge, University of
24	Canterbury Christ Church University
25	Cardiff Metropolitan University (UWIC)
26	Cardiff University
27	Central Lancashire, University of (Preston)
29	Chester, University of
30	Chichester, University of

code	UK university name
32	Coventry University
34	Cumbria, University of
35	De Montfort University, Leicester
36	Derby, University of
38	Durham University
39	East Anglia, University of (Norwich)
41	Edge Hill University, Ormskirk
43	Edinburgh, University of
44	Essex, University of
45	Exeter, University of
48	Glasgow, University of
49	Gloucestershire, University of
52	Greenwich, University of
54	Hertfordshire, University of (Hatfield)
56	Huddersfield, University of
58	Hull, University of
59	Imperial College London
61	Keele University
62	Kent, University of (Canterbury)
63	Kings College London
64	Kingston University
65	Lancaster University
67	Leeds Beckett (formerly Metropolitan) University
68	Leeds, University of
69	Leicester, University of
70	Lincoln, University of
72	Liverpool John Moores University
73	Liverpool, University of
76	London School of Economics and Political Science (LSE)
79	Loughborough University
81	Manchester Metropolitan University
82	Manchester, University of (UMIST)
83	Middlesex University, London
84	Newcastle University
86	Northampton, University of
87	Northumbria University, Newcastle upon Tyne
88	Nottingham Trent University
89	Nottingham, University of
91	Oxford Brookes University
92	Oxford, University of
93	Plymouth, University of
94	Portsmouth, University of
96	Queen Mary, University of London
98	Reading, University of
102	Royal Holloway, University of London
104	Salford, University of
105	Sheffield Hallam University
106	Sheffield, University of

code	UK university name
107	Southampton Solent University
108	Southampton, University of
109	St Andrews, University of
111	Staffordshire University
114	Sunderland, University of
115	Surrey, University of (Guildford)
116	Sussex, University of
118	Swansea University
119	Teesside University, Middlesbrough and Darlington
122	University College London (UCL)
125	Warwick, University of
127	West of England, University of the (Bristol)
129	Westminster, University of
130	Winchester, University of
131	Wolverhampton, University of
132	Worcester, University of
133	York St John University
134	York, University of
138	Falmouth University
147	South Wales, University of
197	Other art college
198	Other specialist university
199	Other university in or around London
200	Other England university outside London
201	Other university, Wales
202	Other university, Scotland
203	Other or unknown UK university