

Millennium Cohort Study

A guide to the linked education administrative datasets

(First Edition)

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1. Introduction

The Millennium Cohort Study (MCS) is the fourth of Britain's world-renowned national longitudinal birth cohort studies.¹ Each follows a large sample of individuals, born over a specific period of time, through the course of their lives. They provide insight into trajectories/mobility over the life course (e.g. in weight, poverty, education) for the population as a whole, and also into how these movements vary across different sub-populations. They are also uniquely placed to allow for an understanding of the relationship between early life events and circumstances and outcomes later on in life.

The MCS provides detailed information on approximately 19,000 children born at the start of the new century and their families, across the United Kingdom. In England and Wales, the cohort members were born over the 12 month period starting September 2000. In Scotland and Northern Ireland, they were born over 13½ months from November 2000. The sample design allowed for disproportionate representation of families living in areas of child poverty, and in areas of England with high ethnic minority populations. Information was first collected from parents, through a home-based survey, when the cohort members were aged nine months. This first survey recorded, amongst other things, the circumstances of pregnancy and birth, as well as those of the early months of life, and the social and economic background of the children's families.

These multidisciplinary baseline data reveal the diversity of starting points from which the 'Children of the New Century' set out. Subsequent surveys have taken place at ages 3, 5, 7, 11, 14 and 17. These surveys coincide with important moments in children's lives, including the preschool period (age 3), and the start, middle and end of primary school (ages 5, 7, 11) and in later school years at key transitional ages (14 and 17). From age 3 onwards, measured physical development and objective cognitive assessments have been carried out with the cohort members; surveys also include interviews with both parents (where co-resident), and, increasingly since age 7, with the cohort member.

Further details of the data available from the main surveys are available from the CLS website and, in particular, the MCS Guide to the Datasets at www.cls.ucl.ac.uk/cls-studies/millennium-cohort-study/

2. Consent to education data linkage

During the fourth (age 7) sweep, the child's parent / carer was asked for consent to link the child's education records to age 16 to their MCS survey data. Details of the consent form and the wording of the consent are reproduced in the MCS4 Technical Report, Appendices Section A16: consent form 3. The document can be found on the CLS website - www.cls.ucl.ac.uk/cls-studies/millennium-cohort-study/mcs-age-7-sweep/. Consent to link to post-16 education records has been obtained during the seventh sweep (age 17) which took place in 2018/2019, and will form the basis for further linked record updates in the future.

¹The previous birth cohort studies, all still ongoing, are the 1946 National Birth Cohort, the 1958 British Birth Cohort (also known as the National Child Development Study) and the 1970 British Cohort Study.

3. Education data linkage

KS1, KS2 and KS4 tests are undertaken in all state maintained schools in England, at ages 5-7, 7-11 and 14-16 respectively. Further details can be found at www.gov.uk/national-curriculum.

Education data was previously linked (in 2015) to the records of MCS participants for Key Stage 1 and 2 (KS1 and KS2). Individuals who were linked included those who had consented *and* who were living in England at MCS4. Data was available for a total of 7476 MCS participants from a universe of 8448 corresponding to a linkage rate of 88.5% amongst consenting participants.

In September 2018 CLS requested the Department of Education to relink all consenting MCS participants who were resident in England to their records in the National Pupil Database. The updated linked records provide access to KS1-KS4 data, as well as Pupil Level Annual School Census (PLASC) data, and Absence data.

This request was updated to include consenting participants who were resident in England during any of MCS3, MCS4 or MCS5 (that is, when the participants were of school age) rather than just at MCS4, as previously.² A total of 8438 consenting MCS participants were successfully matched out of 8489 corresponding to a successful linkage rate of 99.4%.

The file contained the following information on the cohort member: Name (forename, middle name and surname), sex, date of birth, most recent postcode, and postcode at the three most recent sweeps of data collection, so age 7, 11 and 14.

The NPD database team matched the data on the following basis.

- a) Direct match of Name (forename, last and middle), Sex, Date of Birth, Postcode most current
- b) Direct match of Name (forename, last and middle), Sex, Date of Birth, Postcode at age 14
- c) Direct match of Name (forename, last and middle), Sex, Date of Birth, Postcode at age 11
- d) Direct match of Name (forename, last and middle), Sex, Date of Birth, Postcode at age 7
- e) Fuzzy matches on names – usually that the first 3 or 4 characters are the same – manually checked.
- f) Close dates on date of birth manually checked.

Table 1: Participation, consent and linkage by sweepⁱ

	MCS3 (age 5)	MCS4 (age 7)	MCS5 (age 11)
Number of participants resident in England at MCS3, MCS4 or MCS5	8630	9047	7942
Number with valid consent	8126	8489	7508
Number with linked NPD data	7846	8438	7252

² This was in order to capture more cohort members who had experience of education in England.

The first row in Table 1 shows the number of cohort members who were resident in England during sweeps 3, 4 or 5, forming the universe of individuals whose NPD data it was possible to link. A request was made to link NPD records for those individuals with a valid consent to education record linkage (row 2). The number with linked NPD data and present in this deposit is shown in row 3.

4. Data available

4.1. Datasets

The following linked NPD data was provided by the DfE:

- Pupil level school census data from N1 (first year nursery 2003/2004) to year 11 (2016/17)
- KS1, KS2 and KS4 results data for years 2, 6 and 11 respectively
There are a few cases where results are not available for the above years but are available for preceding or subsequent years. Please refer to Table 2 for further details.
- Absence data from year 1 to year 11

In addition, school data from the school database³ were matched to MCS cohort members to obtain school characteristics and derived school change variables for the following years:

- School characteristics data from N1 to year 11
- School change information from N1 to year 11

The school change datasets were constructed to account for changing identifiers of schools between years. The datasets allow schools to be linked both forwards and backwards in time. They were derived using a consistent data panel of schools merged to the school database (for years 1999 to 2017) to identify schools that had changed URN between years and the characteristics related to that change i.e. mergers, splits, openings, closures, changes in school status. A detailed description of the data panel is given in Appendix A.

Individual MCS cohort members are identified by the variables MCSID and CNUM. In addition, a comparison of results across LEA and school is possible via the anonymised variables LEA_ANON_xx and URN_ANON_xx respectively.

The deposited datasets are described in Table 2.

A broad description of what is covered by each dataset is included in this table.

- Pupil Level: Pupil characteristics (PLX)
- School Level: School characteristics (SLX)
- Pupil Level: Summary achievement and attainment (PLA)
- Pupil Level: Achievement and attainment per qualification (PLQ)

³ Local Education Authority School Information Service (LEASIS) files were used up to 2014 and in subsequent years information from spine (census) data was used: www.compare-school-performance.service.gov.uk/download-data

The Exam and Pupil level tables for Key Stage 2 and Key Stage 4 are described by PLQ and PLA respectively.

Tables 3 to 11 list the variables belonging to each of these datasets.

Table 2: List of deposited datasets

Name of the dataset	Data source	Coverage	Contents
MCS_CM_NPD_PLASC_2004	School Census	PLX	School Census data on pupils attending maintained schools in 2003/04
MCS_CM_NPD_PLASC_2005	School Census	PLX	School Census data on pupils attending maintained schools in 2004/05
MCS_CM_NPD_SCHOOL_CENSUS_2006	School Census	PLX	School Census data on pupils attending maintained schools in 2005/06
MCS_CM_NPD_SCHOOL_CENSUS_2007	School Census	PLX	School Census data on pupils attending maintained schools in 2006/07
MCS_CM_NPD_SCHOOL_CENSUS_2008	School Census	PLX	School Census data on pupils attending maintained schools in 2007/08
MCS_CM_NPD_SCHOOL_CENSUS_2009	School Census	PLX	School Census data on pupils attending maintained schools in 2008/09
MCS_CM_NPD_SCHOOL_CENSUS_2010	School Census	PLX	School Census data on pupils attending maintained schools in 2009/10
MCS_CM_NPD_SCHOOL_CENSUS_2011	School Census	PLX	School Census data on pupils attending maintained schools in 2010/11
MCS_CM_NPD_SCHOOL_CENSUS_2012	School Census	PLX	School Census data on pupils attending maintained schools in 2011/12
MCS_CM_NPD_SCHOOL_CENSUS_2013	School Census	PLX	School Census data on pupils attending maintained schools in 2012/13
MCS_CM_NPD_SCHOOL_CENSUS_2014	School Census	PLX	School Census data on pupils attending maintained schools in 2013/14
MCS_CM_NPD_SCHOOL_CENSUS_2015	School Census	PLX	School Census data on pupils attending maintained schools in 2014/15
MCS_CM_NPD_SCHOOL_CENSUS_2016	School Census	PLX	School Census data on pupils attending maintained schools in 2015/16
MCS_CM_NPD_SCHOOL_CENSUS_2017	School Census	PLX	School Census data on pupils attending maintained schools in 2016/17
MCS_CM_NPD_ABSENCE_2007	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2006/07
MCS_CM_NPD_ABSENCE_2008	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2007/08
MCS_CM_NPD_ABSENCE_2009	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2008/09
MCS_CM_NPD_ABSENCE_2010	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2009/10
MCS_CM_NPD_ABSENCE_2011	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2010/11
MCS_CM_NPD_ABSENCE_2012	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2011/12

Name of the dataset	Data source	Coverage	Contents
MCS_CM_NPD_ABSENCE_2013	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2012/13
MCS_CM_NPD_ABSENCE_2014	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2013/14
MCS_CM_NPD_ABSENCE_2015	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2014/15
MCS_CM_NPD_ABSENCE_2016	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2015/16
MCS_CM_NPD_ABSENCE_2017	Pupil Absences	PLX	Pupil absences derived from the termly School Census 2016/17
MCS_CM_NPD_KS1_2008	KS1 Educational Attainment	PLS	Key stage 1 attainment in 2007/08 ⁴ . This has information on the assessment of learners by the end of year 2 of schooling
MCS_CM_NPD_KS2_EXAM_2012	KS2 Educational attainment	PLQ	Key stage 2 attainment per qualification taken in 2011/12. This has information on the assessment of learners by the end of year 6 of schooling
MCS_CM_NPD_KS2_PUPIL_2012	KS2 Educational attainment	PLS	Key stage 2 attainment in 2011/12 ⁵ . This has information on the assessment of learners by the end of year 6 of schooling
MCS_CM_NPD_KS4_EXAM_2017	KS4 Educational attainment	PLQ	Key stage 4 attainment per qualification taken in 2016/17. This has information on the assessment of learners by the end of year 11 of schooling
MCS_CM_NPD_KS4_PUPIL_2017	KS4 Educational attainment	PLS	Key stage 4 attainment in 2016/17 ⁶ . This has information on the assessment of learners by the end of year 11 of schooling
MCS_DERIVED_SCHOOL_CHAR_2004	School Characteristics	SLX	School characteristics derived from LEASIS school data 2003/04
MCS_DERIVED_SCHOOL_CHAR_2005	School Characteristics	SLX	School characteristics derived from LEASIS school data 2004/05
MCS_DERIVED_SCHOOL_CHAR_2006	School Characteristics	SLX	School characteristics derived from LEASIS school data 2005/06
MCS_DERIVED_SCHOOL_CHAR_2007	School Characteristics	SLX	School characteristics derived from LEASIS school data 2006/07
MCS_DERIVED_SCHOOL_CHAR_2008	School Characteristics	SLX	School characteristics derived from LEASIS school data 2007/08
MCS_DERIVED_SCHOOL_CHAR_2009	School Characteristics	SLX	School characteristics derived from LEASIS school data 2008/09
MCS_DERIVED_SCHOOL_CHAR_2010	School Characteristics	SLX	School characteristics derived from LEASIS school data 2009/10

⁴ There are a few cases (in this dataset) where attainment results are not available in 2007/08 but are available in academic years 2006/07 or 2008/09

⁵ There are a few cases (in the exam and pupil datasets) where attainment results are not available in 2011/12 but are available in academic years 2010/11 or 2012/13

⁶ There are a few cases (in the exam and pupil datasets) where attainment results are not available in 2016/17 but are available in academic years 2015/16 or 2017/18.

Name of the dataset	Data source	Coverage	Contents
MCS_DERIVED_SCHOOL_CHAR_2011	School Characteristics	SLX	School characteristics derived from LEASIS school data 2010/11
MCS_DERIVED_SCHOOL_CHAR_2012	School Characteristics	SLX	School characteristics derived from LEASIS school data 2011/12
MCS_DERIVED_SCHOOL_CHAR_2013	School Characteristics	SLX	School characteristics derived from LEASIS school data 2012/13
MCS_DERIVED_SCHOOL_CHAR_2014	School Characteristics	SLX	School characteristics derived from LEASIS school data 2013/14
MCS_DERIVED_SCHOOL_CHAR_2015	School Characteristics	SLX	School characteristics derived from LEASIS school data 2014/15
MCS_DERIVED_SCHOOL_CHAR_2016	School Characteristics	SLX	School characteristics derived from LEASIS school data 2015/16
MCS_DERIVED_SCHOOL_CHAR_2017	School Characteristics	SLX	School characteristics derived from LEASIS school data 2016/2017
MCS_DERIVED_SCHOOL_CHANGE_2005	School Change	SLX	School characteristics derived from LEASIS school data 2004/05
MCS_DERIVED_SCHOOL_CHANGE_2006	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2005/06
MCS_DERIVED_SCHOOL_CHANGE_2007	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2006/07
MCS_DERIVED_SCHOOL_CHANGE_2008	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2007/08
MCS_DERIVED_SCHOOL_CHANGE_2009	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2008/09
MCS_DERIVED_SCHOOL_CHANGE_2010	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2009/10
MCS_DERIVED_SCHOOL_CHANGE_2011	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2010/11
MCS_DERIVED_SCHOOL_CHANGE_2012	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2011/12
MCS_DERIVED_SCHOOL_CHANGE_2013	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2012/13
MCS_DERIVED_SCHOOL_CHANGE_2014	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2013/14
MCS_DERIVED_SCHOOL_CHANGE_2015	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2014/15
MCS_DERIVED_SCHOOL_CHANGE_2016	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2015/16

Name of the dataset	Data source	Coverage	Contents
MCS_DERIVED_SCHOOL_CHANGE_2017	School Change	SLX	School change derived from Database of Schools and LEASIS school data 2016/17

In addition to these datasets, there are two files which are lookup tables to variables in the KS4 Exam dataset:

MAPPINGCODES This file contains the description of the Key Stage 4 mapping codes held in the Key Stage 4 Exam data

QUALCODES This file contains the description of the Key Stage 4 qualification codes held in the Key Stage 4 Exam data

4.2. Pupil level school census data⁷

Table 3: Variables in the pupil level school census datasets

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
ACMPRES	Sweep 1: Whether cohort member present in sweep	CLS
BCMPRES	Sweep 2: Whether cohort member present in sweep	CLS
CCMPRES	Sweep 3: Whether cohort member present in sweep	CLS
DCMPRES	Sweep 4: Whether cohort member present in sweep	CLS
ECMPRES	Sweep 5: Whether cohort member present in sweep	CLS
FCMPRES	Sweep 6: Whether cohort member present in sweep	CLS
URN_ANON_xx	School unique reference number (anonymised)	CLS
LEA_ANON_xx	Local education authority (anonymised)	CLS
RECORDSTATUS_xx	Where duplicate, defines how the main record was identified	DfE
ACADEMICYEAR_xx	Academic year	DfE
CENSUSDATE_xx	Census reference date	DfE
DATACOLLECTION_xx	Primary / special schools completed PLASC 2006; secondary schools completed School Census for Spring 2006	DfE

⁷ For the Pupil level school census data, variables listed may not be available in all years

Variable Name	Description	Source
ONROLL_xx	Indicates whether the record is for a pupil who is on roll or no longer on roll	DfE
SOURCETABLE_xx	Source of data	DfE
PHASE_xx	Phase of Education offered by Mainstream Schools	DfE
GENDER_xx	Sex of pupil	DfE
YEAROFBIRTH_xx	The year in which the pupil was born	DfE
MONTHOFBIRTH_xx	The month in which the pupil was born	DfE
ETHNICGROUP_xx	Pupil's ethnic group based on ethnic code	DfE
ETHNICGROUPMINOR_xx	Pupil's minor ethnic group based on extended ethnicity code	DfE
ETHNICGROUPMAJOR_xx	Pupil's major ethnic group based on extended ethnicity code	DfE
FSMELIGIBLE_xx	Pupil recorded as eligible for Free School Meals on Census day. From 2012/13, set to 'true' if a pupil has an FSM period with a start date and end date blank or end date on or after census date which means they are FSM eligible on Census day	DfE
EVERFSM_3_xx	Flag to indicate if pupil has ever been recorded as eligible for free school meals on Census day in any termly or annual Census (including Alternative Provision Census and PRU Census where available) in the last 3 years up to the pupil's current year (not including nursery)	DfE
EVERFSM_6_xx	Flag to indicate if pupil has ever been recorded as eligible for free school meals on Census day in any termly or annual Census (including Alternative Provision Census and PRU Census where available) in the last 6 years up to the pupil's current year (not including nursery)	DfE
EVERFSM_ALL_xx	Flag to indicate if pupil has ever been recorded as eligible for free school meals on Census day in any Spring Census up to the pupil's current year (not including nursery)	DfE
CONNEXIONS_xx / YSSA_xx	Do parents' consent to pupil data being shared with Connexions?	DfE
FIRSTLANGUAGE_xx	The language to which the child was exposed during early development and continues to use this language in the home or in the community. If a child acquires English subsequent to early development, then English is not their first language no matter how proficient in it they become	DfE
LANGUAGEGROUPMAJOR_xx	Pupil's major language group based on language code	DfE
MODEOFTRAVEL_xx	Indicates the usual mode of travel used by the child for the greater part (in distance) of the journey to school	DfE
UNITCONTACTTIME_xx	Indicates number of Contact hours pupil should spend in Census week (PRUs only)	DfE
ENROLSTATUS_xx	Indicates enrolment status of a pupil using one of the registration codes supplied in the pick list	DfE

Variable Name	Description	Source
CLASSTYPE_xx	Denotes whether or not the pupil is in a nursery class or not. Class equates to registration group. A nursery class is one designated by the LA – any pupil in a class not designated as a nursery class by the LA should be counted as an 'other' (O) class even if they are of nursery age	DfE
NCYEARACTUAL_xx	The year group in which the pupil is taught for the majority of their time, regardless of their chronological age	DfE
SENPROVISION_xx	Provision types under the SEN Code of Practice	DfE
NCYEARLEAVING_xx	The year group in which the pupil is taught for the majority of their time, regardless of their chronological age (off roll pupils)	DfE
SENPROVISIONMAJOR_xx	Pupil's major SEN provision group based on SEN provision code	DfE
QUALHRS_xx	Planned learning hours in the current academic year	DfE
QUALHRSPREV_xx	Planned learning hours in the previous academic year	DfE
NONQUALHRS_xx	Planned employability, enrichment and pastoral hours in the current academic year	DfE
NONQUALHRSPREV_xx	Planned learning hours in the previous academic year	DfE
MATHSGCSEHIGHPRIORATT_xx	Indicates the highest grade the pupil achieved in GCSE maths Available in 2017	DfE
MATHSGCSEPRIORATTYRGP_xx	Indicates the stage at which the pupil achieved GCSE maths Available in 2017	DfE
ENGLISHGCSEHIGHPRIORATT_x x	Indicates the highest grade the pupil achieved in GCSE English Available in 2017	DfE
ENGLISHGCSEPRIORATTYRGP_ xx	Indicates the stage at which the pupil achieved GCSE English Available in 2017	DfE
MATHSGCSEFUNDEX_xx	Indicates why the pupil is exempt from the condition of funding for maths	DfE
ENGLISHGCSEFUNDEX_xx	Indicates why the pupil is exempt from the condition of funding for English	DfE
IDACIRANK_xx	Income Deprivation Affecting Children Indices. Years covered include: 2004 – PLASC 03/04 to Spring Census 06/07 2007 – Spring Census 07/08 to 09/10 2010 – Spring Census 10/11 to 14/15 2015 – Spring Census 15/16 to 16/17	DfE

4.3. Absence data⁸

Table 4: Variables in the absence datasets

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
MAINRECORD_xx	Indicates whether or not this is the main record for a pupil in cases where there are multiple records, e.g. for pupils who changed school during the year	DfE
URN_ANON_xx	School unique reference number (anonymised)	CLS
LEA_ANON_xx	Local education authority (anonymised)	CLS
SOURCETABLE_1_xx / ONROLL_1_xx	Source table for data taken from Spring Census	DfE
SOURCETABLE_2_xx / ONROLL_2_xx	Source table for data taken from Summer Census	DfE
SOURCETABLE_3_xx / ONROLL_3_xx	Source table for data taken from Autumn Census	DfE
ACADEMICYEAR_xx	Academic year	DfE
GENDER_xx	Sex of pupil	DfE
PHASE_xx	This details the phase of education offered by Mainstream Schools	
CONNEXIONS_xx / YSSA_xx	Do parents' consent to pupil data being shared with Connexions?	DfE
MODEOFTRAVEL_xx	Indicates the usual mode of travel used by the child for the greater part (in distance) of the journey to school	DfE
ENROLSTATUS_xx	Indicates enrolment status of a pupil using one of the registration codes supplied in the pick list	DfE
NCYEARACTUAL_xx	The year group in which the pupil is taught for the majority of their time, regardless of their chronological age	DfE
CLASSTYPE_xx	Pupil nursery class indicator	DfE
SESSIONSPOSSIBLE_AUT_xx	Number of Autumn sessions possible. This will be blank for special schools before 2016/17	DfE
AUTHABSENCE_AUT_xx	Number of Autumn sessions missed due to authorised absence. This will be blank for special schools before 2016/17	DfE
AUTHABSENCEFLAG_AUT_xx	Flag to indicate if the Autumn authorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsAuthorised variable	DfE
UNAUTHABSENCE_AUT_xx	Number of Autumn sessions missed due to unauthorised absence. This will be blank for special schools before 2016/17	DfE

⁸ For the Absence data, variables listed may not be available in all years

Variable Name	Description	Source
UNAUTHABSENCEFLAG_AUT_xx	Flag to indicate if the Autumn unauthorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsUnauthorised variable	DfE
OVERALLABSENCE_AUT_xx	Number of absence sessions for the Autumn term	DfE
SESSIONSPOSSIBLE_SPR_xx	Number of Spring sessions possible. This will be blank for special schools before 2016/17	DfE
AUTHABSENCE_SPR_xx	Number of Spring sessions missed due to authorised absence. This will be blank for special schools before 2016/17	DfE
AUTHABSENCEFLAG_SPR_xx	Flag to indicate if the Spring authorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsAuthorised variable	DfE
UNAUTHABSENCE_SPR_xx	Number of Spring sessions missed due to unauthorised absence. This will be blank for special schools before 2016/17	DfE
UNAUTHABSENCEFLAG_SPR_xx	Flag to indicate if the Spring unauthorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsUnauthorised variable	DfE
OVERALLABSENCE_SPR_xx	Number of absence sessions for the Spring term	DfE
SESSIONSPOSSIBLE_SUM_xx	Number of Summer sessions possible. This will be blank for special schools before 2016/17	DfE
AUTHABSENCE_SUM_xx	Number of Summer sessions missed due to authorised absence. This will be blank for special schools before 2016/17	DfE
AUTHABSENCEFLAG_SUM_xx	Flag to indicate if the Summer authorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsAuthorised variable	DfE
UNAUTHABSENCE_SUM_xx	Number of Summer sessions missed due to unauthorised absence. This will be blank for special schools before 2016/17	DfE
UNAUTHABSENCEFLAG_SUM_xx	Flag to indicate if the Summer unauthorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsUnauthorised variable	DfE
OVERALLABSENCE_SUM_xx	Number of absence sessions for the Summer term	DfE
SESSIONSPOSSIBLE_SUM6TH_xx	Number of Summer 6 th sessions possible. This will be blank for special schools before 2016/17	DfE
AUTHABSENCE_SUM6TH_xx	Number of Summer 6 th sessions missed due to authorised absence. This will be blank for special schools before 2016/17	DfE
AUTHABSENCEFLAG_SUM6TH_xx	Flag to indicate if the Summer 6 th authorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsAuthorised variable	DfE
UNAUTHABSENCE_SUM6TH_xx	Number of Summer 6 th sessions missed due to unauthorised absence. This will be blank for special schools before 2016/17	DfE
UNAUTHABSENCEFLAG_SUM6TH_xx	Flag to indicate if the Summer 6 th unauthorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsUnauthorised variable	DfE
OVERALLABSENCE_SUM6TH_xx	Number of absence sessions for the Summer 6 th term	DfE
SESSIONSPOSSIBLE_ANN_xx	Number of Annual sessions possible. This will be blank for special schools before 2016/17	DfE

Variable Name	Description	Source
AUTHABSENCE_ANN_xx	Number of Annual sessions missed due to authorised absence. This will be blank for special schools before 2016/17	DfE
AUTHABSENCEFLAG_ANN_xx	Flag to indicate if the Annual authorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsAuthorised variable	DfE
UNAUTHABSENCE_ANN_xx	Number of Annual sessions missed due to unauthorised absence. This will be blank for special schools before 2016/17	DfE
UNAUTHABSENCEFLAG_ANN_xx	Flag to indicate if the Annual unauthorised absence was calculated using the sum of the reasons for absence, or the TermlySessionsUnauthorised variable	DfE
OVERALLABSENCE_ANN_xx	Number of absence sessions for the Annual term	DfE
SESSIONSPOSSIBLE_3TERM_xx	Number of sessions possible for the academic year. Based on termly sessions for all schools except special schools for which annual sessions data will be used	DfE
AUTHABSENCE_3TERM_xx	Number of sessions missed due to authorised absence during the academic year. Based on termly sessions for all schools except special schools for which annual sessions data will be used	DfE
UNAUTHABSENCE_3TERM_xx	Number of sessions missed due to unauthorised absence during the academic year. Based on termly sessions for all schools except special schools for which annual sessions data will be used	DfE
OVERALLABSENCE_3TERM_xx	Number of absence sessions during the academic year	DfE
SESSIONSPOSSIBLE_5HTERM_xx	Number of sessions possible for the academic year. Based on termly sessions for all schools except special schools before 2016/17 for which annual sessions data will be used	DfE
AUTHABSENCE_5HTERM_xx	Number of sessions missed due to authorised absence during the academic year. Based on termly sessions for all schools except special schools before 2016/17 for which annual sessions data will be used	DfE
UNAUTHABSENCE_5HTERM_xx	Number of sessions missed due to unauthorised absence during the academic year. Based on termly sessions for all schools except special schools before 2016/17 for which annual sessions data will be used	DfE
OVERALLABSENCE_5HTERM_xx	Number of absence sessions during the academic year	DfE
SESSIONSPOSSIBLE_6HTERM_xx	Number of sessions possible for the academic year. Based on termly sessions for all schools except special schools before 2016/17 for which annual sessions data will be used	DfE
AUTHABSENCE_6HTERM_xx	Number of sessions missed due to authorised absence during the academic year. Based on termly sessions for all schools except special schools for which annual sessions data will be used	DfE
UNAUTHABSENCE_6HTERM_xx	Number of sessions missed due to unauthorised absence during the academic year. Based on termly sessions for all schools except special schools before 2016/17 for which annual sessions data will be used	DfE
OVERALLABSENCE_6HTERM_xx	Number of absence sessions during the academic year	DfE

4.4. Key Stage 1 data

Table 5: Variables in the key stage 1 dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
ACMPRES	Sweep 1: Whether cohort member present in sweep	CLS
BCMPRES	Sweep 2: Whether cohort member present in sweep	CLS
CCMPRES	Sweep 3: Whether cohort member present in sweep	CLS
DCMPRES	Sweep 4: Whether cohort member present in sweep	CLS
ECMPRES	Sweep 5: Whether cohort member present in sweep	CLS
FCMPRES	Sweep 6: Whether cohort member present in sweep	CLS
KS1_URN_ANON	School unique reference number (anonymised)	CLS
KS1_LEA_ANON	Local education authority (anonymised)	CLS
KS1_ACADYR	Academic year	DfE
KS1_GENDER	Sex of pupil	DfE
KS1_ToE_CODE	Type of establishment code taken from Edubase	DfE
KS1_NFTYPE	Institution type generated by AAT	DfE
KS1_MMSCH	Maintained mainstream school (including CTCs and Academies) NFTYPE = ANY(20-25,50-52) (ToE_CODE = ANY (28,1-6,33-35) from 2016/17)	DfE
KS1_MMSCH2	Maintained mainstream school (excluding CTCs and Academies) NFTYPE = ANY(21-24) (ToE_CODE = ANY (1-5) from 2016/17)	DfE
KS1_MSCH	Maintained school (including CTCs and Academies) NFTYPE = ANY(20-27,50-53,55) (ToE_CODE = ANY (28,1-7,12,33-36,36,37,44) from 2016/17)	DfE
KS1_MSCH2	Maintained school (excluding CTCs and Academies) NFTYPE = ANY(21-24,26,27) (ToE_CODE = ANY (1-5,7,12) from 2016/17)	DfE
KS1_MOB1	Pupil joined in latest academic year (year 2)	DfE
KS1_MOB2	Pupil joined in previous academic year (year 1)	DfE
KS1_DISC_SPLI	Multi Year Discount flag	DfE

Variable Name	Description	Source
KS1_DISC_READ	Multi Year Discount flag	DfE
KS1_DISC_WRIT	Multi Year Discount flag	DfE
KS1_DISC_MAT	Multi Year Discount flag	DfE
KS1_DISC_SCI	Multi Year Discount flag	DfE
KS1_DISC_PSENG	English P-scale multi-year discount flag	DfE
KS1_DISC_PSREAD	Reading P-scale multi-year discount flag	DfE
KS1_DISC_PSWRITE	Writing P-scale multi-year discount flag	DfE
KS1_DISC_PSSPEAK	Speaking P-scale multi-year discount flag	DfE
KS1_DISC_PSLISTEN	Listening P-scale multi-year discount flag	DfE
KS1_DISC_PSMATHS	Maths P-scale multi-year discount flag	DfE
KS1_DISC_PSNUM	Number P-scale multi-year discount flag	DfE
KS1_DISC_PSUSING	Using and Applying P-scale multi-year discount flag	DfE
KS1_DISC_PSSHAPE	Shape, Space and Measure P-scale multi-year discount flag	DfE
KS1_DISC_PSSCIENCE	Science P-scale multi-year discount flag	DfE
KS1_SPEAKANDLISTEN	National Curriculum level awarded for speaking and listening (Teacher Assessment)	DfE
KS1_READING	National Curriculum level awarded for reading (Teacher Assessment)	DfE
KS1_WRITING	National Curriculum level awarded for writing (Teacher Assessment)	DfE
KS1_READWRIT	English Average Level (derived from Reading and Writing)	DfE
KS1_MATHS	National Curriculum level awarded for Maths (Teacher Assessment)	DfE
KS1_SCIEXPINVEST	National Curriculum level awarded for scientific enquiry (Teacher Assessment)	DfE
KS1_SCILIFPROT	National Curriculum level awarded for life and living processes (Teacher Assessment)	DfE
KS1_SCIMATPROP	National Curriculum level awarded for materials and their properties (Teacher Assessment)	DfE
KS1_SCIPHYSPROC	National Curriculum level awarded for physical processes (Teacher Assessment)	DfE

Variable Name	Description	Source
KS1_SCIENCE	National Curriculum level awarded for overall Science (Teacher Assessment)	DfE
KS1_PSENG	English P-scale level	DfE
KS1_PSREAD	Reading P-scale level	DfE
KS1_PSWRITE	Writing P-scale level	DfE
KS1_PSSPEAK	Speaking P-scale level	DfE
KS1_PSLISTEN	Listening P-scale level	DfE
KS1_PSMATHS	Mathematics P-scale level	DfE
KS1_PSNUM	Number P-scale level	DfE
KS1_PSUSING	Using & Applying P-scale level	DfE
KS1_PSSHAPE	Shape, Space & Measure P-scale level	DfE
KS1_PSSCIENCE	Science P-scale level	DfE
KS1_READPOINTS	Reading attainment point score	DfE
KS1_WRITPOINTS	Writing attainment point score	DfE
KS1_READWRITPOINTS	Average Reading and Writing attainment point score	DfE
KS1_MATPOINTS	Maths attainment point score	DfE
KS1_SCIPOINTS	Overall Science attainment point score	DfE
KS1_APS	Average attainment point score (including Reading, Writing, Maths and Overall Science only)	DfE
KS1_LEVLSPLI	Achieved Level 1 or below (low attainment) in KS1 Speaking and Listening	DfE
KS1_LEVLREAD	Achieved Level 1 or below (low attainment) in KS1 Reading	DfE
KS1_LEVLWRIT	Achieved Level 1 or below (low attainment) in KS1 Writing	DfE
KS1_LEVLMAT	Achieved Level 1 or below (low attainment) in KS1 Maths	DfE
KS1_LEVLSCI	Achieved Level 1 or below (low attainment) in KS1 overall Science	DfE
KS1_LEVXSPLI	Achieved Level 2 or above (expected level) in KS1 Speaking and Listening	DfE

Variable Name	Description	Source
KS1_LEVXREAD	Achieved Level 2 or above (expected level) in KS1 Reading	DfE
KS1_LEVXWRIT	Achieved Level 2 or above (expected level) in KS1 Writing	DfE
KS1_LEVXMAT	Achieved Level 2 or above (expected level) in KS1 Maths	DfE
KS1_LEVXSCI	Achieved Level 2 or above (expected level) in KS1 overall Science	DfE
KS1_LEV2BREAD	Achieved Level 2B or above in KS1 Reading	DfE
KS1_LEV2BWRIT	Achieved Level 2B or above in KS1 Writing	DfE
KS1_LEV2BMAT	Achieved Level 2B or above in KS1 Maths	DfE
KS1_LEVAXSPLI	Achieved Level 3 or above (above expected level) in KS1 Speaking and Listening	DfE
KS1_LEVAXREAD	Achieved Level 3 or above (above expected level) in KS1 Reading	DfE
KS1_LEVAXWRIT	Achieved Level 3 or above (above expected level) in KS1 Writing	DfE
KS1_LEVAXMAT	Achieved Level 3 or above (above expected level) in KS1 Maths	DfE
KS1_LEVAXSCI	Achieved Level 3 or above (above expected level) in KS1 overall Science	DfE
KS1_VERSION	Data version	DfE

4.5. Key Stage 2 Exam data

Table 6: Variables in the key stage 2 exam dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
KS2_URN_ANON	School unique reference number (anonymised)	CLS
KS2_ACADYR	Academic year	DfE
KS2_ASSESSYR	Assessment year	DfE
KS2_SUBLEVNO	Qualification and assessment code	DfE

Variable Name	Description	Source
KS2_DSJSUBLEV	DSJ version of SUBLEVNO	DfE
KS2_LEAPCODE	LEAP subject mapping code - code that identifies the test subject	DfE
KS2_GRADE	Test level. KS1 TA only from 2015/16	DfE
KS2_DISC3	Multi-year discount flag	DfE
KS2_TESTSTAT	Paper sat by pupil	DfE
KS2_T1MARK	Test mark 1	DfE
KS2_T2MARK	Test mark 2	DfE
KS2_T3MARK	Test mark 3	DfE
KS2_T4MARK	Test mark 4	DfE
KS2_READMARK	Reading test mark	DfE
KS2_WRITMARK	Writing test mark	DfE
KS2_TESTMARK	Main test mark	DfE
KS2_TESTLEV	Main test level	DfE
KS2_EXTMARK	Extension test mark	DfE
KS2_EXTLEVEL	Extension test level	DfE
KS2_TALEVEL	Teacher assessment level	DfE
KS2_FINE	Fine grade of test level	DfE
KS2_POINTS	KS2/KS3 current attainment point score	DfE
KS2_AMDEXAM	Type of exam level amendment made either prior to mail out or as a result of the checking exercise	DfE
KS2_VERSION	Data version	DfE

4.6. Key Stage 2 Pupil data

Table 7: Variables in the key stage 2 pupil dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
ACMPRES	Sweep 1: Whether cohort member present in sweep	CLS
BCMPRES	Sweep 2: Whether cohort member present in sweep	CLS
CCMPRES	Sweep 3: Whether cohort member present in sweep	CLS
DCMPRES	Sweep 4: Whether cohort member present in sweep	CLS
ECMPRES	Sweep 5: Whether cohort member present in sweep	CLS
FCMPRES	Sweep 6: Whether cohort member present in sweep	CLS
KS2_URN_ANON	School unique reference number (anonymised)	CLS
KS2_LEA_ANON	Local education authority (anonymised)	CLS
KS2_ACADYR	Academic year	DfE
KS2_YEARGRP	Year group - derived from date of birth	DfE
KS2_GENDER	Sex of pupil	DfE
KS2_ToE_CODE	Type of establishment code taken from Edubase	DfE
KS2_NFTYPE	Institution type generated by AAT	DfE
KS2_MMSCH	Maintained Mainstream school (including CTCs and Academies) NFTYPE = ANY(20-25, 50-52)	DfE
KS2_MMSCH2	Maintained Mainstream school (excluding CTCs and Academies) NFTYPE = ANY(21-24)	DfE
KS2_MSCH	Maintained school (including CTCs and Academies) NFTYPE = ANY(20-27, 50-53,55)	DfE
KS2_MSCH2	Maintained school (excluding CTCs and Academies) NFTYPE = ANY(21-24,26,27)	DfE
KS2_AMDPUPIL	Type of pupil level amendment made either prior to mail out or as a result of the checking exercise	DfE
KS2_ENDKS	Pupils at the end of Key Stage 2	DfE

Variable Name	Description	Source
KS2_EXAMYEAR_EN	English examination year	DfE
KS2_EXAMYEAR_MA	Maths examination year	DfE
KS2_SCHRES	Pupil included in school level averages	DfE
KS2_LARES	Pupil included in LA averages	DfE
KS2_NATRES	Pupil included in national averages	DfE
KS2_NATMTDRES	Pupil included in national results (Maintained)	DfE
KS2_NPDDEN_LA	Pupil included in denominator for LA averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE
KS2_NPDDEN_NAT	Pupil included in denominator for national averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE
KS2_SCHRESTA	Pupil included in school results for TA calculations	DfE
KS2_LARESTA	Pupil included in LA results for TAs	DfE
KS2_NATRESTA	Pupil included in National results (all) for TAs	DfE
KS2_NATMTDRESTA	Pupil included in National results (Maintained) for TAs	DfE
KS2_ELIGREAD	Pupil included in the eligible pupil number for Reading i.e. has a test result of A,B,M,T,P,H,Q,S,AS,NS,CA,CN. It is used as the denominator for school and LA calculations of achievement in Reading	DfE
KS2_ELIGREADTA	Pupil included in the eligible pupil number for Reading TA i.e. has teacher assessment of A,D,M,P,HNM, EXS	DfE
KS2_ELIGWRIT	Pupil included in the eligible pupil number for Writing i.e. has a test result of A, B, M, N, P, T, 2-6, Q or S. It is used as the denominator for school and LA calculations of achievement in Writing	DfE
KS2_ELIGWRITTA	Pupil included in the eligible pupil number for Writing TA i.e. has teacher assessment of A,D,M,P,WTS, GDS, EXS, BLW, PKE, PKF, PKG	DfE
KS2_ELIGENG	Pupil included in the eligible pupil number for English i.e. has a test result of A, B, M, N, P, T, 2-6 or Q. It is used as the denominator for school and LA calculations of achievement in English	DfE
KS2_ELIGENGTA	Pupil included in the eligible pupil number for English TA i.e. has a teacher assessment level of 1-6, A, D or W	DfE
KS2_ELIGMAT	Pupil included in the eligible pupil number for Maths i.e. has a test result of A,B,M,T,P,H,Q,S,AS,NS,CA,CN. It is used as the denominator for school and LA calculations of achievement in Maths	DfE
KS2_ELIGMATTA	Pupil included in the eligible pupil number for Maths TA i.e. has a teacher assessment of A,D,M,P,HNM, EXS, BLW, PKE, PKF, PKG	DfE
KS2_ELIGENGLA	Eligible result in English for LA calculations	DfE
KS2_ELIGREADLA	Eligible result in Reading for LA calculations	DfE

Variable Name	Description	Source
KS2_ELIGWRITLA	Eligible result in Writing for LA calculations	DfE
KS2_ELIGMATLA	Eligible result in Maths for LA calculations	DfE
KS2_ELIGSCITA	Pupil included in the eligible pupil number for Science TA i.e. has a teacher assessment of A,D,M,P,HNM, EXS	DfE
KS2_VALENG	Pupil included in the eligible pupil number for English and does not have a missing, unmatched past or lost results i.e. has a test result of A, B, N, T, 2-6 or Q (including overseas pupils). It is used as the denominator for national calculations of achievement in English	DfE
KS2_VALENGTA	Pupil included in the eligible pupil number for English TA and does not have a missing, unmatched past results i.e. has a teacher assessment level of 1-6, A, D or W	DfE
KS2_VALREAD	Pupil included in the eligible pupil number for reading and does not have a missing, unmatched past or lost results i.e. has a test result of A,B,T,H,Q,AS,NS,CA,CN (including overseas pupils). It is used as the denominator for national calculations of achievement in reading	DfE
KS2_VALREADTA	Pupil included in the eligible pupil number for Reading TA and does not have a missing, unmatched past results i.e. has a teacher assessment level of A,D,HNM, EXS, BLW, PKE, PKF, PKG (including overseas pupils)	DfE
KS2_VALWRIT	Pupil included in the eligible pupil number for writing and does not have a missing, unmatched past or lost results i.e. has a test result of A, B, N, T, 2-6 or Q (including overseas pupils). It is used as the denominator for national calculations of achievement in writing	DfE
KS2_VALWRITTA	Pupil included in the eligible pupil number for Writing TA and does not have a missing, unmatched past results i.e. has a teacher assessment level of A,D,WTS, GDS, EXS, BLW, PKE, PKF, PKG (including overseas pupils)	DfE
KS2_VALMAT	Pupil included in the eligible pupil number for Maths and does not have a missing, unmatched past or lost results i.e. has a test result of A,B,T,H,Q,AS,NS,CA,CN (including overseas pupils). It is used as the denominator for national calculations of achievement in Maths	DfE
KS2_VALMATTA	Pupil included in the eligible pupil number for Maths TA and does not have a missing, unmatched past results i.e. has a teacher assessment level of A,D,HNM, EXS, BLW, PKE, PKF, PKG (including overseas pupils)	DfE
KS2_VALSCITA	Pupil included in the eligible pupil number for Science TA and does not have a missing, unmatched past results i.e. has a teacher assessment level of A,D,HNM, EXS (including overseas pupils)	DfE
KS2_READLEVTA	National Curriculum level awarded for English reading Teacher Assessment	DfE
KS2_WRITLEVTA	National Curriculum level awarded for English writing Teacher Assessment	DfE
KS2_ENGTIER	English paper sat by pupil	DfE
KS2_READMRK	Marks achieved in English reading test	DfE
KS2_ENGWRTMRK	Marks achieved in English writing test	DfE
KS2_ENGTOTMRK	Total marks achieved in English test (sum of reading and writing tests)	DfE
KS2_READLEV	National Curriculum level awarded for English reading test	DfE

Variable Name	Description	Source
KS2_ENGWRTILEV	National Curriculum level awarded for English writing test (forms half of overall English test)	DfE
KS2_ENGLEV	National Curriculum level awarded for English test	DfE
KS2_ENGLEVTA	National Curriculum level awarded for English Teacher Assessment	DfE
KS2_ENGPOINTS	English attainment point score	DfE
KS2_ENGFINE	Finely graded level of English test	DfE
KS2_MATTIER	Maths paper sat by pupil	DfE
KS2_MATTESTAMRK	Marks achieved in Paper A of Maths test	DfE
KS2_MATTESTBMRK	Marks achieved in Paper B of Maths test	DfE
KS2_MATARTHMRK	Marks achieved in mental arithmetic paper of Maths test	DfE
KS2_MATTOTMRK	Total marks achieved in Maths test (sum of Paper A, Paper B and mental arithmetic tests)	DfE
KS2_MATLEV	National Curriculum level awarded for Maths test	DfE
KS2_MATLEVTA	National Curriculum level awarded for Maths Teacher Assessment	DfE
KS2_MATPOINTS	Maths attainment point score	DfE
KS2_MATFINE	Finely graded level of Maths test	DfE
KS2_SCILEVTA	National Curriculum level awarded for Science Teacher Assessment	DfE
KS2_LEVLENG	Achieved Level 2 or below (low attainment) in KS2 English	DfE
KS2_LEVLMAT	Achieved Level 2 or below (low attainment) in KS2 Maths	DfE
KS2_LEVLEMSTA	Achieved Level 2 or below (low attainment) in KS2 English, Maths and Science Teacher Assessment	DfE
KS2_LEVXREAD	Achieved Level 4 or above (expected level) in KS2 English reading	DfE
KS2_LEVXREADTA	Achieved Level 4 or above (expected level) in KS2 Reading TA	DfE
KS2_LEVXWRIT	Achieved Level 4 or above (expected level) in KS2 English writing	DfE
KS2_LEVXWRITTA	Achieved Level 4 or above (expected level) in KS2 Writing TA	DfE
KS2_LEVXENG	Achieved Level 4 or above in KS2 English	DfE

Variable Name	Description	Source
KS2_LEVXENGTA	Achieved Level 4 or above (expected level) in KS2 English TA	DfE
KS2_LEVXMAT	Achieved Level 4 or above in KS2 Maths	DfE
KS2_LEVXMATTA	Achieved Level 4 or above (expected level) in KS2 Maths TA	DfE
KS2_LEVXSCITA	Achieved Level 4 or above (expected level) in KS2 Science TA	DfE
KS2_LEVXENGMAT	Achieved Level 4 or above (expected level) in KS2 English and Maths	DfE
KS2_LEVXEMSTA	Achieved Level 4 or above (expected level) in KS2 English, Maths and Science Teacher Assessment	DfE
KS2_LEVAXREAD	Achieved Level 5 (above expected level) in KS2 English reading	DfE
KS2_LEVAXREADTA	Achieved Level 5 (above expected level) in KS2 Reading TA	DfE
KS2_LEVAXWRIT	Achieved Level 5 or above (expected level) in KS2 English writing	DfE
KS2_LEVAXWRITTA	Achieved Level 5 (above expected level) in KS2 Writing TA	DfE
KS2_LEVAXENG	Achieved Level 5 in KS2 English	DfE
KS2_LEVAXENGTA	Achieved Level 5 (above expected level) in KS2 English TA	DfE
KS2_LEVAXMAT	Achieved Level 5 in KS2 Maths	DfE
KS2_LEVAXMATTA	Achieved Level 5 (above expected level) in KS2 Maths TA	DfE
KS2_LEVAXENGMAT	Achieved Level 5 (above expected level) in KS2 English and KS2 Maths	DfE
KS2_LEVAXSCITA	Achieved Level 5 (above expected level) in KS2 Science TA	DfE
KS2_LEVAXEMSTA	Achieved Level 5 (above expected level) in KS2 English, Maths and Science Teacher Assessment	DfE
KS2_LEVBXREAD	Achieved Level 3 or below in KS2 Reading	DfE
KS2_LEVBXREADTA	Achieved Level 3 or below in KS2 Reading TA	DfE
KS2_LEVBXWRIT	Achieved Level 3 or below in KS2 Writing	DfE
KS2_LEVBXWRITTA	Achieved Level 3 or below in KS2 Writing TA	DfE
KS2_LEVBXENG	Achieved Level 3 or below in KS2 English	DfE
KS2_LEVBXENGTA	Achieved Level 3 or below in KS2 English TA	DfE

Variable Name	Description	Source
KS2_LEVBXMAT	Achieved Level 3 or below in KS2 Maths	DfE
KS2_LEVBXENGMAT	Achieved Level 3 or below in KS2 English and KS2 Maths	DfE
KS2_LEVBXMATTA	Achieved Level 3 or below in KS2 Maths TA	DfE
KS2_LEVBXSCITA	Achieved Level 3 or below in KS2 Science TA	DfE
KS2_LEVBXEMSTA	Achieved Level 3 or below in KS2 English, Maths and Science Teacher Assessment	DfE
KS2_LEV6READMAT	Achieved Level 6 in KS2 Reading or KS2 Maths	DfE
KS2_LEVADREADTA	Absent or disapplied in Reading TA	DfE
KS2_LEVADWRITTA	Absent or disapplied in Writing TA	DfE
KS2_LEVADENGTA	Absent or disapplied in English TA	DfE
KS2_LEVADMATTA	Absent or disapplied in Maths TA	DfE
KS2_LEVADSCITA	Absent or disapplied in Science TA	DfE
KS2_LEVATENG	Absent or unable to access the test in English	DfE
KS2_LEVATMAT	Absent or unable to access the test in Maths	DfE
KS2_TOTPTS	Total KS2 point score as used in the valued added calculations	DfE
KS2_APSDENS	Number of subjects in which the pupil contributes to the average point score at school level	DfE
KS2_APSDENN	Number of subjects in which the pupil contributes to the average point score at national level	DfE
KS2_APSDENNMTS	Number of subjects in which the pupil contributes to the APS at national level for maintained schools	DfE
KS2_ENGLEVK1	KS1 English level for progress measure	DfE
KS2_ENGLEVK2	KS2 English level for progress measure (including TA)	DfE
KS2_MATHLEVK1	KS1 maths level for progress measure	DfE
KS2_MATHLEVK2	KS2 maths level for progress measure (including TA)	DfE
KS2_PROGENG12	Number of levels of progress in English between KS1 and KS2 (excluding TA)	DfE
KS2_PROGMATH12	Number of levels of progress in maths between KS1 and KS2	DfE

Variable Name	Description	Source
KS2_PROGENG12FLAG	Pupil flag for making 2 levels of progress in English between KS1 and KS2	DfE
KS2_PROGMAT12FLAG	Pupil flag for making 2 levels of progress in maths between KS1 and KS2	DfE
KS2_INKS12VA	Pupil included in VA calculations	DfE
KS2_KS1APS	KS1 average point score	DfE
KS2_KS2APSG	KS2 average point score (using fine grading)	DfE
KS2_KS1READPS	2010/11 - KS1 reading point score	DfE
KS2_KS1WRITPS	2010/11 - KS1 writing point score	DfE
KS2_KS1MATPS	2010/11 - KS1 maths point score	DfE
KS2_KS1EXP	KS1 Expected Levels	DfE
KS2_EALGRP	English as additional language	DfE
KS2_KS1APS2	KS1 APS – squared	DfE
KS2_KS1APS3	KS1 APS – cubed	DfE
KS2_KS2ENGFG	KS2 English point score (using fine grading)	DfE
KS2_KS2MATFG	KS2 maths point score (using fine grading)	DfE
KS2_VAAPSSCORE	English + Maths VA score (Actual-predicted)	DfE
KS2_VAENGSCORE	English VA score (Actual-predicted)	DfE
KS2_VAMATSCORE	Maths VA score (Actual-predicted)	DfE
KS2_VAAPSPRED1	Predicted score without deviation (English and Maths)	DfE
KS2_VAAPSPRED	Predicted score with ceiling (English and Maths)	DfE
KS2_VAENGPRED1	Predicted score without deviation (English)	DfE
KS2_VAENGPRED	Predicted score with ceiling (English)	DfE
KS2_VAMATPRED1	Predicted score without deviation (maths)	DfE
KS2_VAMATPRED	Predicted score with ceiling (maths)	DfE

Variable Name	Description	Source
KS2_PE_DEV	Prior attainment KS1 English point score deviation	DfE
KS2_PM_DEV	Prior attainment KS1 Maths point score deviation	DfE
KS2_PSENG	English P-scale	DfE
KS2_PSREAD	Reading P-scale	DfE
KS2_PSWRITE	Writing P-scale	DfE
KS2_PSSPEAK	Speaking P-scale	DfE
KS2_PSLISTEN	Listening P-scale	DfE
KS2_PSMATHS	Mathematics P-scale	DfE
KS2_PSNUM	Number P-scale	DfE
KS2_PSUSING	Using and Applying P-scale	DfE
KS2_PSSHAPE	Shape, Space & Measures P-scale	DfE
KS2_PSSCIENCE	Science P-scale	DfE
KS2_EAL_PAPS	Is English not first language?*Prior APS	DfE
KS2_EAL_PAPSSQ	Is English not first language?* Prior APS squared	DfE
KS2_MOB1	Pupil joined in latest academic year (year 6)?	DfE
KS2_MOB2	Pupil joined in previous academic year (year 5)?	DfE
KS2_MOB3	Pupil joined in first two years of key stage (year 3 or 4)?	DfE
KS2_NEWMOBILE	Did pupil join the school after 12 September 2010 (in year 5)?	DfE
KS2_VERSION	Data version	DfE

4.7. Key Stage 4 Exam data

Table 8: Variables in the key stage 4 exam dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
KS4_URN_ANON	School unique reference number (anonymised)	CLS
KS4_ACADYR	Academic year	DfE
KS4_PREREG	Pre-registered pupil without result	DfE
KS4_EXAMYEAR	Calendar year in which the qualification was attempted (academic qualifications) or issued (vocational qualifications)	DfE
KS4_PTYEAR	Current performance tables year	DfE
KS4_SEASON	Exam season	DfE
KS4_BOARDNO	Awarding body number	DfE
KS4_SUBLEVNO	Qualification and assessment code	DfE
KS4_QAN	Qualification accreditation number	DfE
KS4_BRDSUBNO	Awarding body subject number	DfE
KS4_MAPPING	LEAP/LDCS subject mapping code – code that identifies the exam subject	DfE
KS4_GRADE	The grade of the exam	DfE
KS4_DISC3_PTQ_EE	- Multi-year discount flag - Based on 2015 performance tables qualifications - Early entry rules applied across all subjects	DfE
KS4_DISC3B	Multiyear discount flag (subset of qualifications) prior to 2013/14 From 2013/14, Multi-year discount flag (based on academic performance tables qualifications at level 2 only) plus early entry rules (2014 methodology)	DfE
KS4_DISC3B_PTQ_EE	- Multi-year discount flag - Based on 2015 performance tables academic qualifications at level 2 - Early entry rules applied across all subjects	DfE
KS4_DISC3_EBACC_PTQ_EE	- Multi-year discount flag - Based on 2015 performance tables qualifications - Excluding level 3 qualifications which are not on the EBacc list but discount level 2 qualifications on the EBacc list - Early entry rules applied across all subjects - For scenarios where 'best' rules are applied, flag is excluded from the exception discounting process	DfE

Variable Name	Description	Source
KS4_DISC3C_PTQ_EE	- Multi-year discount flag - Based on 2015 performance tables academic qualifications at level 2 and 3 - Early entry rules applied across all subjects	DfE
KS4_DISC3_CAP_PTQ_EE	- Based on DISC3_PTQ_EE - Updated to 1 for capped vocational qualifications - Updated to 0 for restored academic qualifications that had been discounted (under 'best' discounting rules) by capped vocational qualifications	DfE
KS4_DISC3_CAP3_PTQ_EE	Capped version of DISC3 plus early entry rules (2016 methodology)	DfE
KS4_DISC1	One year discount flag (based on GCSE and equivalent qualifications)	DfE
KS4_DISC2	Two year discount flag (based on GCSE and equivalent qualifications)	DfE
KS4_PTQ_INCLUDE	KS4 Result is included in PTQ calculations	DfE
KS4_INCLUDE_ALL	KS4 Result is included in ALL_B calculations	DfE
KS4_WOLF_INCLUDED	Qualification is included in Wolf indicators	DfE
KS4_A8INCLUDED	Qualification included in Attainment 8 / Progress 8	DfE
KS4_LEV1_PTQ_EE	Proportion of the Level 1 threshold that this qualification makes up	DfE
KS4_LEV2_PTQ_EE	Proportion of the Level 2 threshold that this qualification makes up	DfE
KS4_WOLF_GOOD_PASS_THRES HOLD	Wolf Strong Pass Threshold	DfE
KS4_GSIZE_PTQ_EE	Size of the qualification equivalent to GCSEs	DfE
KS4_GORIGIN	Original grade	DfE
KS4_GFINAL	Final grade	DfE
KS4_POINTS_PTQ_EE	Total GCSE and equivalents point score using new style point score	DfE
KS4_AMDEXAM	Shows when an amendment has been made to a result during the School & College Achievement and Attainment tables checking exercise	DfE
KS4_QEBACC_PTQ_EE	Qualification type included in English Baccalaureate	DfE
KS4_WOLF_DISC_CODE	Wolf discount code	DfE
KS4_A8DISC	Discounted qualifications under attainment 8	DfE
KS4_VOC_CAPPED3_PTQ_EE	Vocational result is 'capped' i.e. flagged as discounted, so that only 3 vocational results count towards indicators	DfE

Variable Name	Description	Source
KS4_AC_CAP3_RESTORED_PTQ_EE	Academic result 'restored' (i.e. no longer discounted by vocational result) as discounting vocational result has been 'capped' to limit to max of 3 vocational awards (i.e. vocational result is now flagged as discounted)	DfE
KS4_A8POINTS	Point score for qualification in Attainment 8 / Progress 8	DfE
KS4_UPDATE_MTH	Month result last updated added at KS4 (Extracted from date KS4_UPDATE)	CLS
KS4_UPDATE_YR	Year result last updated added at KS4 (Extracted from date KS4_UPDATE)	CLS
KS4_MATH_94	Size of EBacc standard 9-4 pass in mathematics	DfE
KS4_MATH_95	Size of EBacc strong 9-5 pass in mathematics	DfE
KS4_EBACENG_94	Achieved a standard 9-4 pass in the EBacc English component	DfE
KS4_EBACENG_95	Achieved a strong 9-5 pass in the EBacc English component	DfE
KS4_MATH_91	Size of EBacc 9-1 pass in mathematics	DfE
KS4_EBACENG_91	Size of EBacc 9-1 pass in English	DfE
KS4_ENGLGPR_94	Size of EBacc standard 9-4 pass in English Language in English linked pairs	DfE
KS4_ENGLGPR_95	Size of EBacc strong 9-5 pass in English Language in English linked pairs	DfE
KS4_ENGLTPR_94	Size of EBacc standard 9-4 pass in English Literature in English linked pairs	DfE
KS4_ENGLTPR_95	Size of EBacc strong 9-5 pass in English Literature in English linked pairs	DfE
KS4_ENGLGPR_91	Size of EBacc 9-1 pass in English Language in English linked pairs	DfE
KS4_ENGLTPR_91	Size of EBacc 9-1 pass in English Literature in English linked pairs	DfE
KS4_ACADEMIC	Qualification is counted as academic qualification	DfE
KS4_A8ENTENG	Entered for English	DfE
KS4_A8ENG	Point score in English	DfE
KS4_A8ENTENGLANG	Entered for English language	DfE
KS4_A8ENGLANG	Point score in English language	DfE
KS4_A8ELIT	Point score in English literature	DfE

Variable Name	Description	Source
KS4_A8MAT	Point score in mathematics	DfE
KS4_A8MAT1	Point score in applications of mathematics (linked pair)	DfE
KS4_A8MAT2	Point score in method in mathematics (linked pair)	DfE
KS4_A8FSMQ	Point score in free standing maths qualification	DfE
KS4_A8EBAC	Point score in EBacc subject	DfE
KS4_A8OTH	Point score in non-EBacc subject	DfE
KS4_A8EBAC_RNK	Rank of EBacc point score against other EBacc subjects	DfE
KS4_A8OTH_RNK	Rank of non-EBacc point score against other non-EBacc subjects	DfE
KS4_DSCIROW	Rank of undiscounted combined science qualification	DfE
KS4_EBACCNOTSCI	Flag of qualification eligible to count in an EBacc slot that is not part of a science pathway	DfE
KS4_ENGRESIDLANG	Point score of residual English language qualification	DfE
KS4_ENGRESIDLIT	Point score of residual English literature qualification	DfE
KS4_CORESCIENGRNK	Rank of qualifications eligible for EBacc and open slots if core science and overall English pathway is taken in best entry cases	DfE
KS4_CORESCILANGLITRNK	Rank of qualifications eligible for EBacc and open slots if core science and separate language and literature pathway is taken in best entry cases	DfE
KS4_DOUBSCIENGRNK	Rank of qualifications eligible for EBacc and open slots if double science and overall English pathway is taken in best entry cases	DfE
KS4_DOUBSCILANGLITRNK	Rank of qualifications eligible for EBacc and open slots if double science and separate language and literature pathway is taken in best entry cases	DfE
KS4_TRIPSCIENGRNK	Rank of qualifications eligible for EBacc and open slots if separate science and overall English pathway is taken in best entry cases	DfE
KS4_TRIPSCILANGLITRNK	Rank of qualifications eligible for EBacc and open slots if separate science and separate language and literature pathway is taken in best entry cases	DfE
KS4_A8DISC2	Discounting to flag the same as A8DISC except in best entry cases	DfE
KS4_VERSION	Data version	DfE

4.8. Key Stage 4 Pupil data

Table 9: Variables in the key stage 4 pupil dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
ACMPRES	Sweep 1: Whether cohort member present in sweep	CLS
BCMPRES	Sweep 2: Whether cohort member present in sweep	CLS
CCMPRES	Sweep 3: Whether cohort member present in sweep	CLS
DCMPRES	Sweep 4: Whether cohort member present in sweep	CLS
ECMPRES	Sweep 5: Whether cohort member present in sweep	CLS
FCMPRES	Sweep 6: Whether cohort member present in sweep	CLS
KS4_URN_ANON	School unique reference number (anonymised)	CLS
KS4_LEA_ANON	Local education authority (anonymised)	CLS
KS4_ACADYR	Academic year	DfE
KS4_YEARGRP	Year Group - derived from date of birth	DfE
KS4_ACTYRGRP	The actual National Curriculum year group that the pupil follows within the school, including pupils in Independent schools (AAT data)	DfE
KS4_GENDER	Sex of pupil	DfE
KS4_ToE_CODE	Type of establishment code taken from Edubase	DfE
KS4_NFTYPE	Institution type generated by AAT	DfE
KS4_NEW_TYPE	School Type	DfE
KS4_NEWER_TYPE	School type (alternative breakdown)	DfE
KS4_MMSCH	Maintained mainstream school, academy, free school or CTC (excluding maintained special schools, academy special schools and Free School special schools) NFTYPE = ANY(20-25,51-52,57-58)	DfE
KS4_MMSCH2	Maintained mainstream school (excluding Academies, Free Schools and CTCs) NFTYPE = ANY(21-24)	DfE
KS4_MSCH	Maintained school, academy, free school or CTC (including maintained special schools, Academy special schools and Free	DfE

Variable Name	Description	Source
	School special schools) NFTYPE = ANY(20-27,50-53,55,57,58,63,64)	
KS4_MSCH2	Maintained school, including maintained special schools (excluding Academies, Free Schools and CTCs) NFTYPE = ANY(21-24,26,27)	DfE
KS4_ADMPOL	Admissions policy	DfE
KS4_ADMPOL_2017	School admissions policy - new definition from 2017 onwards	DfE
KS4_FECOLLEGE1416	FE college with 14-16 provision	DfE
KS4_ENTRIES	Number of entries	DfE
KS4_AMDFLAG	Shows when an amendment has been made to a pupil during the School & College Achievement and Attainment tables checking exercise	DfE
KS4_ENDKS	Indicates whether a pupil is at the end of KS4	DfE
KS4_P_INCL	Pupil Inclusion flag	DfE
KS4_EARLYT_E	Indicates whether GCSE and equivalents were taken early by a current 15 year old pupil, and shows their on-roll status	DfE
KS4_NORFLAGE	Indicates whether the pupil should be included in number on roll and results calculations according to their School Census status, and any amendments	DfE
KS4_SCHRES	Indicates whether a pupil should be included in the results calculations for their school taking in to consideration any amendments, refugee status and age group where relevant (for pupils in all schools including independent schools)	DfE
KS4_LARES	Indicates whether a pupil should be included in the results calculations for their LA taking into consideration school type and inclusion of school in LA averages, any pupil amendments, refugee status and age group where relevant (for pupils in all schools including independent schools)	DfE
KS4_NATRES	Indicates whether a pupil should be included in the national results calculations taking into consideration inclusion of their school in national averages, any pupil amendments and age group where relevant (for pupils in all schools including independent schools)	DfE
KS4_NATMTDRES	Indicates whether a pupil should be included in national maintained results or in national aggregated school-type results that cover PLASC schools	DfE
KS4_SCHNOR	Indicates whether a pupil should be included in the denominator for the number 15 year olds for their school taking into consideration any amendments, refugee status and age group where relevant (only for pupils in School Census schools)	DfE
KS4_LANOR	Indicates whether a pupil should be included in the denominator for the number 15 year olds for their LA taking into consideration any amendments, refugee status and age group where relevant (only for pupils in School Census schools)	DfE
KS4_NATNOR	Indicates whether a pupil should be included in the denominator for the number of 15 year olds nationally taking into consideration any amendments, refugee status and age group where relevant (only for pupils in School Census schools)	DfE
KS4_NPDDEN_NAT	Pupil included in denominator for national averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE

Variable Name	Description	Source
KS4_NPDNUM_NAT	Pupil included in numerator for national averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE
KS4_NPDDEN_LA	Pupil included in denominator for LA averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE
KS4_NPDNUM_LA	Pupil included in numerator for LA averages in NPD-based figures such as those published in 'Attainment by Pupil Characteristics' SFRs	DfE
KS4_GCSEVOC_PTQ_EE	Total number of Double Award Vocational GCSE entries	DfE
KS4_ALLSCI_PTQ_EE	Entered 3 of Biology, Physics, Chemistry or Computer Science GCSEs or ASs (except for computer science which does not include its related AS)	DfE
KS4_MFL_PTQ_EE	Temporary exam level indicator for MFL	DfE
KS4_ENT1GMFL_PTQ_EE	Entered for at least 1 Full GCSE Modern Foreign Language qualification	DfE
KS4_ENT1EMFL_PTQ_EE	Entered for at least 1 Modern Foreign Language qualification	DfE
KS4_ENTRY_G_PTQ_EE	Total number of GCSE only entries (GCSE equivalencies)	DfE
KS4_ENTRY_E_3NG_PTQ_EE	Total number of GCSE and equivalent entries (GCSE equivalencies)	DfE
KS4_PTSPE_PTQ_EE	Uncapped points per qualification entry (including equivalents)	DfE
KS4_GPTSPE_PTQ_EE	Uncapped points per GCSE entry (excluding equivalents)	DfE
KS4_ENTRY_1_3NG_PTQ_EE	Pupil entered for at least 1 GCSE or equivalent	DfE
KS4_ENTRY_5_3NG_PTQ_EE	Pupil entered for at 5 or more GCSEs and equivalents	DfE
KS4_EXAMCAT_PTQ_EE	Highest examination category achieved at GCSE and equivalent	DfE
KS4_PASS_AC_3NG_PTQ_EE	Number of passes at grades A*-C (equivalents included)	DfE
KS4_PASS_1AC_PTQ_EE	Pupil passed at least one level 2 qualification	DfE
KS4_PASS_LEV2_PTQ_EE	Total number of Level 2 GCSE and equivalent qualifications (GCSE equivalencies)	DfE
KS4_PASS_LEV2EM_PTQ_EE	Total number of Level 2 GCSE and equivalent qualifications including Level 2 in GCSE English and Maths (counted as being a GCSE) (GCSE equivalencies)	DfE
KS4_PASS_LEV1_PTQ_EE	Total number of Level 1 GCSE and equivalent qualifications (GCSE equivalencies)	DfE
KS4_PASS_LEV1EM_PTQ_EE	Total number of Level 1 GCSE and equivalent qualifications including Level 1 in GCSE English and Maths (counted as being a GCSE) (GCSE equivalencies)	DfE
KS4_BTEC_PTQ_EE	Number of BTECs achieved (NOT GCSE equivalencies)	DfE

Variable Name	Description	Source
KS4_EDEXDA_PTQ_EE	Number of EDEXCEL Qualifications in Digital Applications for IT Users achieved (NOT GCSE equivalencies)	DfE
KS4_PTSTNEWE_PTQ_EE	Total GCSE and equivalents new style point score	DfE
KS4_PTSCNEWE_PTQ_EE	Capped GCSE and equivalents new style point score	DfE
KS4_HPGENG_PTQ_EE	Highest standardised points in English GCSE	DfE
KS4_HPGMATH_PTQ_EE	Highest standardised points in Maths GCSE	DfE
KS4_KS2ENG24P_PTQ_EE	KS2 English Prior Attainment level for KS2-KS4 progression measure (2011 methodology)	DfE
KS4_KS2MAT24P_PTQ_EE	KS2 maths Prior Attainment level for KS2-KS4 progression measure (2011 methodology)	DfE
KS4_ENGLISHBONUS_PTQ_EE	Bonus for English	DfE
KS4_MATHSBONUS_PTQ_EE	Bonus for Maths	DfE
KS4_AVPTSENT_PTQ_EE	Average GCSE and equivalent point score per entry	DfE
KS4_LEVEL2_PTQ_EE	Achieved Level 2 threshold (5 or more GCSE and equivalents at grades A*-C)(including S96, WOLF, first Entry and vocational qualification capping)	DfE
KS4_GLEVEL2_PTQ_EE	Achieved 5 A*-C (GCSE only)	DfE
KS4_GLEVEL2EM_PTQ_EE	Achieved 5 A*-C (GCSE only) including English and maths	DfE
KS4_LEVEL1_PTQ_EE	Achieved Level 1 threshold (5 or more GCSE and equivalents at grades A*-G)(including S96, WOLF, first Entry and vocational qualification capping)	DfE
KS4_ANYLEV1_PTQ_EE	Achieved at least 1 GCSE or equivalent at grade A*-G	DfE
KS4_ANYPASS_PTQ_EE	Achieved any passes at all in GCSE or equivalents(including S96, WOLF, first Entry and vocational qualification capping)	DfE
KS4_VOCQUAL_PTQ_EE	Flag to indicate if a learner has achieved at least one vocational qualification at KS4	DfE
KS4_2BTECEDEXDA_PTQ_EE	Achieved at least two BTECs or a combination of EDEXCEL Qualifications in Digital Applications for IT User and BTECs	DfE
KS4_HGMATH_PTQ_EE	Highest grade achieved in Full GCSE Maths (as used in the Maths threshold measures)	DfE
KS4_KS4SCI_PTQ_EE	Highest point score achieved (GCSE equivalencies) in Science (Full GCSE, Full Intermediate or Foundation GNVQ and Vocational GCSE)	DfE
KS4_LEVEL2_EM_94	Achieved 5 or more GCSE and equivalents at grades (Level 2) including standard passes (9-4) in GCSE English and Maths	DfE
KS4_LEVEL1_EM_PTQ_EE	Achieved 5 or more GCSE and equivalents at grades A*-G (Level 1) including GCSE English and Maths (counted as being a GCSE)	DfE

Variable Name	Description	Source
KS4_LEV2EM_94	Achieved English and Maths at level 2 (GCSE only) - with a 9-4 pass	DfE
KS4_LEV2FEM_PTQ_EE	Achieved functional English and Maths at level 2	DfE
KS4_LEV2EM_95	Achieved English and Maths at level 2 (GCSE only) - with a strong 9-5 pass	DfE
KS4_LEV1EM_PTQ_EE	Achieved A*-G (Level 1) in GCSE English and Maths	DfE
KS4_LEV1FEM_PTQ_EE	Achieved functional English and Maths at level 1	DfE
KS4_LEV2SCIA_PTQ_EE	Achieved Level 2 in Double science or Applied Science	DfE
KS4_LEV2SCIB_PTQ_EE	Achieved Level 2 in GCSE Science plus GCSE Additional Science or Applied Science or GCSE Land & Environment	DfE
KS4_LEV2SCIC_PTQ_EE	Entered 3 of Biology, Physics, Chemistry, Computer Science GCSEs or ASs and achieved A*-C in two of Biology, Physics, Chemistry or Computer Science GCSEs or ASs	DfE
KS4_LEV2SCID_PTQ_EE	Entered Biology, Physics, Chemistry GCSEs or ASs and achieved 'good' Physics and Chemistry GCSEs or ASs	DfE
KS4_LEV2SCIE_PTQ_EE	BTECs in Science	DfE
KS4_LEV2SCIF_PTQ_EE	OCR Nationals Award and Certificate in Science	DfE
KS4_LEV2SCIG_PTQ_EE	Achieved equivalent of Level 2 in Intermediate GNVQs in Science	DfE
KS4_LEV2SCI2_PTQ_EE	Achieved 2 'good' science GCSEs or equivalent	DfE
KS4_LEV2SCI2B_PTQ_EE	Achieved 2 'good' science GCSEs or equivalent (counting the BTECs, OCRs and IGNVQs)	DfE
KS4_PASS_ABSCIA_PTQ_EE	Achieved A*-B in Double Science or Applied Science	DfE
KS4_PASS_ABSCIB_PTQ_EE	Achieved A*-B in GCSE Science plus GCSE Additional Science or Applied Science or GCSE Land & Environment	DfE
KS4_PASS_ABSCIC_PTQ_EE	Entered Biology, Physics, Chemistry GCSEs or ASs and achieved equivalent of A*-B GCSE in Biology plus Physics or Chemistry GCSEs or Ass	DfE
KS4_PASS_ABSCID_PTQ_EE	Entered Biology, Physics, Chemistry GCSEs or ASs and achieved equivalent of A*-B GCSE in Physics and Chemistry GCSEs or Ass	DfE
KS4_PASS_ABSCI2_PTQ_EE	Achieved equivalent of A*-B GCSE in 2 Science GCSEs or equivalent	DfE
KS4_LEVEL2MFL_PTQ_EE	Achieved A*-C in one full Modern Foreign Language GCSE or equivalent	DfE
KS4_LEVEL1MFL_PTQ_EE	Achieved A*-G in one short course Modern Foreign Language GCSE or equivalent	DfE
KS4_ANYPMFL_PTQ_EE	Achieved any passes in Modern Foreign Language	DfE
KS4_GCSE_ENGATT_PTQ_EE	Pupil attempted English GCSE	DfE

Variable Name	Description	Source
KS4_GCSE_ENG_91	Pupil passed English GCSE at A*-G 9-1	DfE
KS4_GCSE_ENG_94	Pupil passed English GCSE at A*-C with a standard 9-4 pass	DfE
KS4_GCSE_ENG_95	Pupil passed English GCSE at A*-C with a strong 9-5 pass	DfE
KS4_GCSE_MATHATT_PTQ_EE	Pupil attempted maths GCSE	DfE
KS4_GCSE_MATH_91	Pupil passed Maths GCSE at A*-G 9-1	DfE
KS4_GCSE_MATH_94	Pupil passed Maths GCSE at A*-C with a standard 9-4 pass	DfE
KS4_GCSE_MATH_95	Pupil passed Maths GCSE at A*-C with a strong 9-5 pass	DfE
KS4_GCSE_SCIATT_PTQ_EE	Pupil attempted science GCSE	DfE
KS4_GCSE_SCIAG_PTQ_EE	Pupil passed science GCSE at A*-G	DfE
KS4_GCSE_SCIAC_PTQ_EE	Pupil passed science GCSE at A*-C	DfE
KS4_EBACENG_94	Achieved a standard 9-4 pass in the EBacc English component	DfE
KS4_EBACENG_95	Achieved a strong 9-5 pass in the EBacc English component	DfE
KS4_EBALLSCI_PTQ_EE	Entered three of Biology, Physics, Chemistry and Computer Science GCSE	DfE
KS4_PASS2SCIA_PTQ_EE	Entered three of Biology, Physics, Chemistry or Computer Science GCSEs and achieved two 'good' of Biology, Physics, Chemistry or Computer Science	DfE
KS4_PASS2SCIB_PTQ_EE	Entered Biology, Physics, Chemistry GCSEs and achieved 'good' Physics and Chemistry	DfE
KS4_PASSOTHSCI_PTQ_EE	Achieved double science or Core and Additional science	DfE
KS4_EBAC2SCI_PTQ_EE	Achieved EBacc 2 sciences component	DfE
KS4_MATHPAIR_PTQ_EE	Entered 'Applications of mathematics' and 'Methods in mathematics' GCSEs	DfE
KS4_PASSMATHPR_PTQ_EE	Achieved at least a Grade C in one of the Maths linked pair GCSEs	DfE
KS4_EBACMAT_94	Achieved a standard 9-4 pass in the EBacc Maths component	DfE
KS4_EBACMAT_95	Achieved a strong 9-5 pass in the EBacc Maths component	DfE
KS4_EBACHUM_PTQ_EE	Achieved EBacc Humanities component	DfE
KS4_EBACLAN_PTQ_EE	Achieved EBacc language component	DfE

Variable Name	Description	Source
KS4_EBACC_94	Achieved English Bacculaureate - standard 9-4 passes in English, mathematics, 2 sciences, a humanity and a language	DfE
KS4_EBACC_95	Achieved English Bacculaureate - strong 9-5 passes in English and mathematics, and 9-4 passes in 2 sciences, a humanity and a language	DfE
KS4_EBACCAPS_PUPIL	Pupil level EBacc average point score	DfE
KS4_L2BASICS_94	Achieved standard 9-4 passes in English and Maths GCSEs at Level 2	DfE
KS4_L2BASICS_95	Achieved strong 9-5 passes in English and Maths GCSEs	DfE
KS4_L2BASICS_1_PTQ_EE	Achieved EBacc E&M and EBacc 2 sciences	DfE
KS4_L2BASICS_2_PTQ_EE	Achieved current E&M and current 2 sciences	DfE
KS4_L2BASICS_3_PTQ_EE	Achieved current E&M and current 2 GCSE only sciences	DfE
KS4_L2BASICS_4_PTQ_EE	Achieved current E&M and EBacc 2 sciences	DfE
KS4_EBACENG_E_PTQ_EE	Pupil entered for EBacc English	DfE
KS4_EBACMAT_E_PTQ_EE	Pupil entered for EBacc Maths	DfE
KS4_EBAC2SCI_E_PTQ_EE	Pupil entered for EBacc science (i.e. 3 separate sciences, Core plus additional or double science)	DfE
KS4_EBACHUM_E_PTQ_EE	Pupil entered for EBacc Humanities (Geography or History)	DfE
KS4_EBACLAN_E_PTQ_EE	Pupil entered for EBacc Languages	DfE
KS4_EBACC_E_PTQ_EE	Entered all subject pillars of the EBacc	DfE
KS4_EBACENG_91	Achieved EBacc English component at 9-1	DfE
KS4_PASS2SCIAAG_PTQ_EE	Entered three of Biology, Physics, Chemistry or Computer Science GCSEs and achieved A*-G in two of Biology, Physics, Chemistry or Computer Science	DfE
KS4_PASS2SCIBAG_PTQ_EE	Entered Biology, Physics, Chemistry GCSEs and achieved A*-G Physics and Chemistry	DfE
KS4_PASSOTHSCIAG_PTQ_EE	Achieved double science or Core and Additional science at grades A*-G	DfE
KS4_EBAC2SCIAG_PTQ_EE	Achieved EBacc 2 sciences component at grade A*-G	DfE
KS4_PASSMATHPRAG_PTQ_EE	Achieved at least a Grade G in one of the Maths linked pair GCSEs	DfE
KS4_EBACMAT_91	Achieved EBacc Maths component at 9-1	DfE
KS4_EBACHUMAG_PTQ_EE	Achieved EBacc Humanities component at grades A*-G	DfE

Variable Name	Description	Source
KS4_EBACLANAG_PTQ_EE	Achieved EBacc language component at grades A*-G	DfE
KS4_EBACC_91	Achieved English Baccalaureate - 9-1 passes in English, mathematics, 2 sciences, a humanity and a language	DfE
KS4_INVAMOD_PTQ_EE	Pupil included in KS2-4 Value added models (best 8, English and Maths EBacc)	DfE
KS4_INSCIVAMOD_PTQ_EE	Pupil included in KS2-4 EBacc science Value added model	DfE
KS4_INHUMVAMOD_PTQ_EE	Pupil included in KS2-4 EBacc humanities Value added model	DfE
KS4_INLANVAMOD_PTQ_EE	Pupil included in KS2-4 EBacc languages Value added model	DfE
KS4_INVACALC_PTQ_EE	Pupil included in KS2-4 Value added calculations (best 8, English and Maths EBacc)	DfE
KS4_INSCIVACALC_PTQ_EE	Pupil included in KS2-4 EBacc science Value added calculation	DfE
KS4_INHUMVACALC_PTQ_EE	Pupil included in KS2-4 EBacc humanities Value added calculation	DfE
KS4_INLANVACALC_PTQ_EE	Pupil included in KS2-4 EBacc languages Value added calculation	DfE
KS4_VAP2TAENG_PTQ_EE	KS2 point score in English (using fine grading and TA)	DfE
KS4_VAP2TAMAT_PTQ_EE	KS2 point score in maths (using fine grading and TA)	DfE
KS4_VAP2TASCI_PTQ_EE	KS2 point score in science (using fine grading and TA)	DfE
KS4_VAP2TAAPS_PTQ_EE	Average KS2 point score for Value Added prior attainment	DfE
KS4_VAP2TAAPSSQ_PTQ_EE	Average KS2 point score squared	DfE
KS4_VAP2TAAPSCU_PTQ_EE	Average KS2 point score cubed	DfE
KS4_P2TAE_DEV_PTQ_EE	Prior attainment (KS2 English) PS deviation	DfE
KS4_P2TAM_DEV_PTQ_EE	Prior attainment (KS2 Maths) PS deviation	DfE
KS4_VAPTSC_PTQ_EE	Capped GCSE, GNVQ & equivalent point score (for use in VA)	DfE
KS4_GPTSTNEWE_PTQ_EE	Total uncapped GCSE point score excluding equivalents	DfE
KS4_GPTSCNEWE_PTQ_EE	Capped GCSE point score excluding equivalents	DfE
KS4_B8SCRPLUSBONUS_PTQ_EE	Points score plus bonus- final score to be used in 'Best 8' VA	DfE
KS4_EBPTSENG_PTQ_EE	Point score in English EBacc pillar	DfE

Variable Name	Description	Source
KS4_EBPTSENG_LL_PTQ_EE	Point score in English EBacc pillar taking the best of language and literature for pupils on this	DfE
KS4_EBPTSMAT_PTQ_EE	Point score in maths EBacc pillar	DfE
KS4_EBPTSSCI_PTQ_EE	Point score in science EBacc pillar	DfE
KS4_EBPTSHUM_PTQ_EE	Highest point score achieved in humanities EBacc pillar	DfE
KS4_EBPTSLAN_PTQ_EE	Highest point score achieved in language EBacc pillar	DfE
KS4_B8VAPRED_PTQ_EE	KS2-4 predicted point score for 'Best 8' VA	DfE
KS4_B8VASCR_PTQ_EE	Pupil 'Best 8' VA score	DfE
KS4_ENGVAPRED_PTQ_EE	KS2-4 predicted point score for 'EBacc English' VA	DfE
KS4_ENGVASCR_PTQ_EE	Pupil 'EBacc English' VA score	DfE
KS4_MATVAPRED_PTQ_EE	KS2-4 predicted point score for 'EBacc maths' VA	DfE
KS4_MATVASCR_PTQ_EE	Pupil 'EBacc maths' VA score	DfE
KS4_SCIVAPRED_PTQ_EE	KS2-4 predicted point score for 'EBacc science' VA	DfE
KS4_SCIVASCR_PTQ_EE	Pupil 'EBacc science' VA score	DfE
KS4_HUMVAPRED_PTQ_EE	KS2-4 predicted point score for 'EBacc humanities' VA	DfE
KS4_HUMVASCR_PTQ_EE	Pupil 'EBacc humanities' VA score	DfE
KS4_LANVAPRED_PTQ_EE	KS2-4 predicted point score for 'EBacc language' VA	DfE
KS4_LANVASCR_PTQ_EE	Pupil 'EBacc language' VA score	DfE
KS4_PRIORBAND_PTQ_EE	Prior attainment band for low/average/high achievement at KS2	DfE
KS4_EALGRP_PTQ_EE	English as additional language groups	DfE
KS4_ENGPAIR_PTQ_EE	Pupil entered for English Language and English Literature linked pair GCSEs	DfE
KS4_ENGPAIRLEV2_94	Achieved level 1 GCSE in English language in English linked pairs	DfE
KS4_ENGPAIRLEV2_95	Achieved strong 9-5 in GCSE in English Language in the English linked pairs	DfE
KS4_ENGPAIRLEV1_PTQ_EE	Achieved level 2 GCSE in English Language in the English linked pairs	DfE

Variable Name	Description	Source
KS4_FINELEVEL_PTQ_EE	Pupil Fine Level score	DfE
KS4_VAPRIORBAND_PTQ_EE	Pupil VA Prior Banding	DfE
KS4_APELIT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) English Literature	DfE
KS4_APELEC_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Electronic Products	DfE
KS4_APFOOD_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Food Technology	DfE
KS4_APGRA_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Graphic Products	DfE
KS4_APRES_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Resistant Materials Technology	DfE
KS4_APSYS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Systems & Control	DfE
KS4_APDTT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Design and Technology: Textiles Technology	DfE
KS4_APART_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Art and Design	DfE
KS4_APHIS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) History	DfE
KS4_APGEO_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Geography	DfE
KS4_APFRE_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) French	DfE
KS4_APGER_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) German	DfE
KS4_APBUS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Business Studies	DfE
KS4_APRS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Religious Studies	DfE
KS4_APPE_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Physical Education	DfE
KS4_APPHY_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Physics	DfE
KS4_APCHE_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Chemistry	DfE
KS4_APBIO_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Biological Science	DfE
KS4_APBIOE_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Biology (except Human Biology)	DfE
KS4_APDRA_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Drama	DfE
KS4_APIT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Information Technology	DfE

Variable Name	Description	Source
KS4_APSPAN_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Spanish	DfE
KS4_APMUS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Music	DfE
KS4_APMAT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Maths	DfE
KS4_APENG_PTQ_EE	Highest grade achieved in Full GCSE (including Double Awards where appropriate) English (as used in the English threshold measures)	DfE
KS4_APSTAT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Statistics	DfE
KS4_APMFT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Media, Film and Television Studies	DfE
KS4_APOFT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Office Technology	DfE
KS4_APHECD_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Home Economics: Child Development	DfE
KS4_APDUT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Dutch	DfE
KS4_APITA_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Italian	DfE
KS4_APMGRK_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Modern Greek	DfE
KS4_APPOR_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Portuguese	DfE
KS4_APARA_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Arabic	DfE
KS4_APBEN_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Bengali	DfE
KS4_APCHI_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Chinese	DfE
KS4_APGUJ_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Gujarati	DfE
KS4_APJAP_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Japanese	DfE
KS4_APMHEB_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Modern Hebrew	DfE
KS4_APPAN_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Panjabi	DfE
KS4_APPOL_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Polish	DfE
KS4_APRUS_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Russian	DfE
KS4_APTUR_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Turkish	DfE
KS4_APURD_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Urdu	DfE

Variable Name	Description	Source
KS4_APPER_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Persian	DfE
KS4_APCGRK_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Classical Greek	DfE
KS4_APLAT_PTQ_EE	Grade achieved in Full GCSE (including Double Awards where appropriate) Latin	DfE
KS4_APVBUS_PTQ_EE	Grade achieved in Vocational GCSE Double Award Applied Business	DfE
KS4_APHSC_PTQ_EE	Grade achieved in Vocational GCSE Double Award Health and Social Care	DfE
KS4_APLT_PTQ_EE	Grade achieved in Vocational GCSE Double Award Leisure and Tourism	DfE
KS4_APVSCI_PTQ_EE	Grade achieved in Vocational GCSE Double Award Applied Science	DfE
KS4_APSVSCI_PTQ_EE	Grade achieved in Vocational GCSE Single Award Additional Applied Science	DfE
KS4_APVIT_PTQ_EE	Grade achieved in Vocational GCSE Double Award Applied ICT	DfE
KS4_APCORESCI_PTQ_EE	Grade achieved in GCSE Core Science	DfE
KS4_APADTSCI_PTQ_EE	Grade achieved in GCSE Additional Science	DfE
KS4_APAPDSCI_PTQ_EE	Grade achieved in GCSE Applied Science	DfE
KS4_ENTRY_E_ALL_PTQ_EE	Total number of GCSE and equivalents entries (all S96 qualifications) under current methodology but all qualifications (ignore PTQ_INCLUDE flag)	DfE
KS4_KS2EMFG	KS2 prior attainment in English and mathematics	DfE
KS4_KS2EMFG_GRP	Recoded prior attainment in English and mathematics for use in calculations	DfE
KS4_INP8MOD	Pupils included in Progress 8 model	DfE
KS4_INP8CALC	Pupils included in Progress 8 calculations	DfE
KS4_CORESCIENGSCORE	Point score in English, EBacc and open slots if using CORESCIENGRNK	DfE
KS4_CORESCILANGLITSCORE	Point score in English, EBacc and open slots if using CORESCILANGLITRNK	DfE
KS4_DOUBSCIENGSCORE	Point score in English, EBacc and open slots if using DOUBSCIENGRNK	DfE
KS4_DOUBSCILANGLITSCORE	Point score in English, EBacc and open slots if using DOUBSCILANGLITRNK	DfE
KS4_TRIPSCIENGSCORE	Point score in English, EBacc and open slots if using TRIPSCIENGRNK	DfE
KS4_TRIPSCILANGLITSCORE	Point score in English, EBacc and open slots if using TRIPSCILANGLITRNK	DfE

Variable Name	Description	Source
KS4_ENGRESID	Lowest score between English language and English literature	DfE
KS4_ENGRESID_G	Whether ENGRESID is GCSE	DfE
KS4_EBAC4	Score for 4th ranked EBacc qualification	DfE
KS4_EBAC5	Score for 5th ranked EBacc qualification	DfE
KS4_EBAC6	Score for 6th ranked EBacc qualification	DfE
KS4_EBAC4_G	Whether EBAC4 qualification is GCSE	DfE
KS4_EBAC5_G	Whether EBAC5 qualification is GCSE	DfE
KS4_EBAC6_G	Whether EBAC6 qualification is GCSE	DfE
KS4_OTH1	Score for best ranked non-EBacc qualification	DfE
KS4_OTH2	Score for 2nd ranked non-EBacc qualification	DfE
KS4_OTH3	Score for 3rd ranked non-EBacc qualification	DfE
KS4_OTH1_G	Whether OTH1 qualification is GCSE	DfE
KS4_OTH2_G	Whether OTH2 qualification is GCSE	DfE
KS4_OTH3_G	Whether OTH3 qualification is GCSE	DfE
KS4_SLOT1ENG	A8 Score achieved in English	DfE
KS4_SLOT2MAT	A8 Score achieved in maths	DfE
KS4_SLOT3EBAC	A8 Score achieved in 1st EBacc slot	DfE
KS4_SLOT4EBAC	A8 Score achieved in 2nd EBacc slot	DfE
KS4_SLOT5EBAC	A8 Score achieved in 3rd EBacc slot	DfE
KS4_SLOT6OPEN	A8 Score achieved in 1st open slot	DfE
KS4_SLOT7OPEN	A8 Score achieved in 2nd open slot	DfE
KS4_SLOT8OPEN	A8 Score achieved in 3rd open slot	DfE
KS4_SLOT6OPEN_G	Whether SLOT6 is GCSE	DfE

Variable Name	Description	Source
KS4_SLOT7OPEN_G	Whether SLOT7 Is GCSE	DfE
KS4_SLOT8OPEN_G	Whether SLOT8 Is GCSE	DfE
KS4_ATT8	Attainment 8 score	DfE
KS4_EBACFILL	Number of EBacc slots filled	DfE
KS4_OPENFILL	Number of open slots filled	DfE
KS4_EBACSCR	Score achieved in EBacc slots	DfE
KS4_OPENSCR	Score achieved in open slots	DfE
KS4_ATT8_PRED	Average attainment 8 score for pupils with same prior attainment	DfE
KS4_P8SCORE	Pupil's progress 8 score	DfE
KS4_ENG_PRED	Average attainment 8 score in English for pupils with same prior attainment	DfE
KS4_P8ENG	Pupil's progress 8 score for English	DfE
KS4_MAT_PRED	Average attainment 8 score in mathematics for pupils with same prior attainment	DfE
KS4_P8MAT	Pupil's progress 8 score for mathematics	DfE
KS4_EBAC_PRED	Average attainment 8 score in EBacc slots for pupils with same prior attainment	DfE
KS4_P8EBAC	Pupil's progress 8 score for EBacc slots	DfE
KS4_OPEN_PRED	Average attainment 8 score in open slots for pupils with same prior attainment	DfE
KS4_P8OPEN	Pupil's progress 8 score for open slots	DfE
KS4_OPENGSCR	Total score achieved in open slots – GCSEs only	DfE
KS4_OPENNGSCR	Total score achieved in open slots – non-GCSEs only	DfE
KS4_ENROLSTS	Pupil enrolment status	DfE
KS4_TRIPLESCI_E	Entered biology, physics and chemistry (EBacc qualifications only)	DfE
KS4_MULTILAN_E	Entered more than one EBacc language	DfE
KS4_NEWMOBILE	Has pupil joined the school in the last two academic years (12 September cut-off date)?	DfE

Variable Name	Description	Source
KS4_VERSION	Data version	DfE

4.9. School characteristics data⁹

We used the result of the updated linked data to provide school characteristics information for 2004-2017. Using the LEASIS files publicly available, a set of files were created containing derived school level information for the linked MCS cohort. School characteristics data are available in two files per school year for all linked participants, containing:

1. MCS_DERIVED_SCHOOL_CHAR_20xx contains school information for school MCS member attended in year 20xx as shown in Table 10.
2. MCS_DERIVED_SCHOOL_CHANGE_20xx (Schools were linked prior to anonymisation and binary indicators were created for whether the pupil attended a different school compared to the previous year 20xx-1). This is shown in Table 11.

Table 10: Variables in the school characteristics dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
URN_ANON_xx	School unique reference number (anonymised)	CLS
GENDER_xx	Sex of school (male, female, mixed)	CLS
SCHOOL_PHASE_xx	Phase of education based on the number of pupils of each age (Nursery only: School has children aged 0-4 Infant only: School has children aged 5-7 Junior only: School has children aged 8-11 Secondary only: School has children aged 12-16 College only: School has children aged 17-19 Infant and junior: School has children aged 5-11 Middle (junior and secondary): School has children aged 8-16 All through (infant to secondary): School has children aged 5-16 Other: School has children outside the age range 0-16)	CLS
AGEENTRY_xx	Age of youngest pupil at school	CLS
SCHOOL_TYPE_xx	School type (Academy, community, foundation, independent, voluntary aided, and voluntary controlled).	CLS
SPECIAL_SCHOOL_xx	Special school indicator. (Community special, foundation special, free school special, special converter, academy special converter, independent approved for SEN pupils, non-maintained special, other)	CLS

⁹ Please note that consistency of outcomes may vary over time due to absence of information (i.e. certain source variables are not available in that year) or changes in the way data is reported.

Variable Name	Description	Source
	independent special, maintained special (excluding general hospital), academy sponsored special, academy special sponsor led, maintained special)	
PCT_FSM_xx	Percentage of children eligible for free school meals (deciles)	CLS
PCT_EAL_xx	Percentage of children with English as an additional language (deciles)	CLS
PCT_SEN_ST_xx	Percentage of children with special educational needs with statement (deciles)	CLS
PCT_SEN_NO_ST_xx	Percentage of children with special educational needs without statement (deciles)	CLS
FTE_xx	Number of full-time pupils registered at schools reported in LEASIS file (grouped)	CLS
NENTRY_xx	Number of pupils in entry year (grouped). Not available from 2015	CLS
NCLASSENTRY_xx	Number of classes/forms in entry year. Not available from 2015	CLS

Table 11: Variables in the school change dataset

Variable Name	Description	Source
MCSID	MCS Research ID - Anonymised Family/Household identifier	CLS
CNUM	Cohort member number within an MCS family	CLS
URN_ANON_xx	School unique reference number (anonymised)	CLS
SAME_SCHOOL_20xx	<p>Whether school attended is the same as in previous year 20xx-1. URNs are compared for 20xx and 20xx-1 and a flag is given if URNs exist for both years. Categories: (0) Same school since previous year (1) Changed school since previous year (2) URN has changed since previous year</p> <p>This variable is derived from the consistent data panel of schools. See Appendix A.</p>	CLS
The outcomes of the following variables are applicable if SAME_SCHOOL_20xx has a value of (2)		
SPLIT_20xx	School has new URN because it split from another school since 20xx-1	CLS
AMALG_20xx	School has new URN because it merged with other schools since 20xx-1	CLS
CHANGE_PCODE_20xx	School has new URN because it changed postcode since 20xx-1	CLS

Variable Name	Description	Source
CHANGE_SCHOOL_NAME _20xx	School has new URN because it changed name since 20xx-1	CLS
CHANGE_SCHOOL_PHASE _20xx	School has new URN because it changed phase since 20xx-1	CLS
CHANGE_SCHOOL_TYPE _20xx	School has new URN because it changed type since 20xx-1	CLS
CHANGE_ACADEMY_20xx	School has new URN because it became an academy since 20xx-1	CLS
CHANGE_NENTRY_20xx	School has new URN because its entry year pupil intake has changed by at least 30 since 20xx-1 Not available from 2015	CLS
CHANGE_GENDER_20xx	School has new URN because it changed gender status since 20xx-1	CLS

5. Standard Disclosure Control

- Any published NPD figure(s) at a local level must be based on no fewer than 3 cases or else suppressed (e.g. replaced with an X, with a note “* in this table means the figures have been suppressed due to small numbers”. Zero is allowed).
- Any published NPD figure(s) at a school level from 2011 onwards must be based on no fewer than 6 cases or else suppressed (e.g. replaced with an X, with a note “* in this table means a figure less than 6”. Zero is allowed).
- Any published figures at school level for years prior to 2011 must be based on no fewer than 11 cases or else suppressed (e.g. replaced with an X, with a note “* in this table means a figure less than 11”. Zero is allowed).
- Even if only one cell requires cell suppression, you must suppress at least one other component cell (the next smallest) to avoid calculation of suppressed values from the totals.

Appendix A: Data panel of schools

Overview

The school database is designed to link school identifiers over time, to aid researchers. Examples of uses include creating a panel of academic attainment (or other characteristics) at the school-level, tracking schools that convert to academy (or change status in another way) and linking to external sources of school data. The database is from the academic year 1998/1999 to 2016/2017. 2016/2017 is the latest year of school census data currently available. The panel was initially created by Ellen Greaves with Lorraine Dearden (for academic years 2005/2006 to 2013/2014). The three most recent cohorts were added by Ellen Greaves.

Structure of the panel

Each row contains a URN, URN and LAESTAB for each academic year. School names for the most recent years are included. More detail follows.

URN: each URN that ever appears in the school database will have a row in the school database. This is so that researchers can use this URN variable to link to their data. For example, the following school changes from 100222 to 121792 in 2005/2006.

urn	...	urn_2004	urn_2005	urn_2006	urn_2007	urn_2008	...
100222		100222	100222	121792	121792	121792	
121792		100222	100222	121792	121792	121792	

Where a school merges, the urn of the merged school will be repeated to show the two (or more) linked predecessors. For example, the following schools merge in 2001/2002.

urn	...	urn_2000	urn_2001	urn_2002	urn_2003	urn_2004	...
100123		100123	100123	132827	132827	132827	
100124		100124	100124	132827	132827	132827	
132827		100123	100123	132827	132827	132827	
132827		100124	100124	132827	132827	132827	

Where a school splits, the urn of the school that splits will be repeated to show the linked successor. For example, the following schools split in 2006/2007.

urn	...	urn_2004	urn_2005	urn_2006	urn_2007	urn_2008	...
101150		101150	101150	101150	130912	130912	
101150		101150	101150	101150	131262	131262	

130912		101150	101150	101150	130912	130912	
131262		101150	101150	101150	131262	131262	

Where a school opens without a predecessor or closes without a successor there will be missing values whenever the school is not open. The examples below show one school that opens and one school that closes in 2008/2009.

urn	...	urn_2006	urn_2007	urn_2008	urn_2009	urn_2010	...
102707		102707	102707	102707	.	.	
135148		.	.	.	135148	135148	

Using the school database

The school database can be used in a number of ways.

Look-up

The simplest is to lookup individual or a small number of schools. For example `-br if inlist(urn, 101150)` - would show the URNs and laestabs over time for the school in example three. This might be useful for schools in a small scale pilot, or to check some existing data.

Tracking schools that change status

Changes in URN or laestab can be easily identified in the school panel (see example code below). Whether this change relates to a change in status (for example academy conversion) could be validated by linking in data on school type from the most recent version of Edubase. See following section for linking to other sources.

Code for changes:

```
gen change_2006 = urn_2006 != urn_2005
replace change_2006 = . if urn_2006 == . | urn_2005 == .
label var change_2006 "School changed URN between 2005 and 2006"
```

Linking to external sources of data

Researchers often have to link sources of data to create their desired dataset for analysis. A common example is linking Ofsted grades to school performance data or the National Pupil Database. As school identifiers can change mid-way through the year this can be problematic. For example, the URN in the Ofsted data may be from October when the school was inspected, but the URN in the school performance data may be from June, after the school had changed status. The school database can be used to attempt to link on adjacent URNs, for example.

Code for linking to external sources of data:

1. Create unique URN in the external data, by dropping duplicates (collapsing to school level from pupil level) or reshaping.
2. Link main dataset to the school database. Keep adjacent URNs. For example if the external data are from 2014 keep urn_2013 and urn_2015 in addition to urn_2014.
3. Link main dataset to the external data using urn_2014. If unmerged, link using urn_2013 and repeat using urn_2015.

Creating a school panel

A panel dataset is common in applied research to analyse changes over time or account for time invariant school characteristics (school fixed effects). Creating such a panel is complicated by changes in the URN over time. The following code shows one way to create a panel. The initial data is at the individual level with multiple academic years.

1. collapse pupil-level data to school level URNs

```
keep urn censusyear
duplicates drop
sort urn censusyear
save "$filepath/urn_censusyear.dta", replace
```

2. link school-level URNs to school database and extract the latest URN. This is done year by year so that can use a -1:m merge-in step 4. Save this link.

```
forvalues year = 2010/2015 {
  preserve
  keep if censusyear == `year'
  merge 1:m urn using "$filepath\data_panel_2017.dta"
  tab urn if _me == 1
  drop if _me == 2
  gen urn_newest = urn_2017
  foreach yearrepeat in 2016 2015 2014 2013 2012 2011 2010 {
    replace urn_newest = urn_`yearrepeat' if urn_newest == .
  }
  keep urn censusyear urn_newest
  duplicates drop
  save "$filepath\urn_newest_`year'.dta", replace
  restore
}
```

3. Append all years together. This is so can use a -1:m merge-in step 4.

```
use "$filepath\urn_newest_2010.dta", clear
forvalues year = 2011/2015 {
  append using "$filepath\urn_newest_`year'.dta"
}
save "$filepath\urn_newest.dta", replace
```

4. merge the link to newest URN back into the existing data to create panel

```
use "$filepath\urn_censusyear.dta", clear

merge 1:m urn censusyear using "$filepath\urn_newest.dta"
assert _me == 3
drop _merge
```

Example of new data

censusyear	urn	urn_newest
2010	108217	133758
2011	108217	133758
2012	133758	133758
2013	133758	133758
2014	133758	133758
2015	133758	133758

5. Check which URN is correct for your context for schools that split.

For example, school 137798 (Bluecoat Academy) splits into 145145 (Bluecoat Primary Academy) and 145146 (Bluecoat Wollaton Academy) in 2017. Whether the panel should track attainment for Bluecoat Primary Academy or Bluecoat Wollaton Academy, or whether to drop this school entirely from the sample is a decision for the researcher.

(Note that Bluecoat Academy had converted from The Nottingham Bluecoat School and Technology College (122894) in 2012.)

censusyear	urn	urn_newest
2010	122894	145145
2011	122894	145145
2012	137798	145145
2013	137798	145145
2014	137798	145145
2015	137798	145145
2010	122894	145146
2011	122894	145146
2012	137798	145146
2013	137798	145146
2014	137798	145146
2015	137798	145146

Appendix B: Data sources

School database (1999-2014). Made available by CLOSER.

All schools (updated daily) and all links

<https://get-information-schools.service.gov.uk/Downloads>

Spine (census) for each academic year

<https://www.compare-school-performance.service.gov.uk/download-data>

NPD Data Tables

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/661132/NPD_Data_Tables_Oct17.xlsx

ⁱ Consent to education data linkage was sought at MCS4. The number in MCS4 equals those with valid consent and successful NPD linkage. Numbers in columns MCS3, MCS4 and MCS5 are those who provided valid consent at MCS4, whose NPD data were successfully linked, and who were present in both the MCS4 survey and the column-specific survey.