

National Pupil Database

Key Stage 2
User Guide

2011

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1. Introduction

The National Pupil Database (NPD) is a longitudinal database for all children in maintained schools in England, linking pupil/student characteristics to school and college learning aims and attainment. It also holds individual pupil level attainment data for pupils in non-maintained and independent schools who partake in the tests/exams.

The NPD holds pupil and school characteristics e.g. age, gender, ethnicity, attendance and exclusions (sourced from the School Census for maintained schools only), matched to pupil level attainment data (Early Years Foundation Stage Profile (EYFSP), Key Stage (KS) assessments and external examinations), collected from schools and Local Authorities (LAs) by the Department for Education (DfE) and awarding bodies. Other data on further education (sourced from the Data Service's Individualised Learner Record (ILR) and awarding bodies), higher education (sourced from the Higher Education Statistics Agency (HESA)) and looked after children has also been matched in to NPD.

The standard extract supplied at KS2 combines attainment data (tests and teacher assessments) with previous attainment at KS1 and spring census data from the current academic year (and the previous seven years), undertaken by schools. Data feeds are provided to the PT (Performance Tables) contractor, which enables the creation of the PT datasets, which are then matched into the NPD. After matching is completed, the first, unamended KS2 extract is released in September. At the same time as the data is being matched into the NPD, the PT data is sent to schools for checking. After schools have made any changes, the amended data can then be matched into the NPD. The amended extract will be available in December. After the PTs have been published, schools are given the opportunity to make errata changes. Again, this new data is matched into the NPD and the final KS2 extract will be available in March 2012.

N.B. As unamended data has not been checked by schools, it should only be used by those with a legitimate need to use it for managerial, operational or other appropriate decision-making purposes at an early stage. In addition, it should NOT be used for

- **Issuing public statements based on the information before the official statistics are published**
- **Supporting direct action on schools or dictating school funding**
- **Publication or public pronouncement of any analyses at aggregate or school level without permission from the DfE**

In the datafile names for the KS2 data, unamended data is denoted by the letter 'U', amended data by the letter 'A' and final data by the letter 'F'. The datafile name will include one of these letters to indicate which version of the data the file contains.

If you have any comments on the usefulness of this user guide, or can suggest extra topics to include, please contact Martin.Johnson@education.gsi.gov.uk.

1.1 Main changes to KS2 standard extracts (unamended) for 2011

- New 9-digit Local Authority code variables added in addition to the existing 3-digit code versions
- Additional Type of Establishment and Institution Type codes for academies
- Additional FSM variables in linked 2011 Census data
- Source of Service Child and Source of Ethnicity variables removed from linked 2011 Census data as from 2011 these are no longer collected in the School Census
- Removal of KS1-2 progression measures in reading and writing
- KS1-2 CVA variables replaced as CVA is no longer calculated at KS2

2. Variables

2.1 Pre-defined 'standard' data extract

This user guide focuses on the pre-defined 'standard' Key Stage 2 data extract. It may be therefore that not all parts of this user guide are relevant if anything other than the pre-defined data extract was requested and supplied.

2.2 Pupil Identifiers

The primary key used to identify pupils is **KS2_PupilMatchingRefAnonymous** (pupil matching reference) which uniquely identifies each pupil in the dataset. This variable is anonymous. Variables identifying individual pupils, such as names, addresses and dates of birth will usually have been removed from the extract, and only included in special circumstances (see section 2.5 on identifiable/sensitive variables).

Variables included in the standard KS2 extract are:

- **KS2_GENDER** – the gender of the pupil;
- **KS2_AGE_START** – the age of the pupil at the start of the academic year (in full years);
- **KS2_YEAROFBIRTH** – the year of birth of the pupil;
- **KS2_MONTHOFBIRTH** – the month of birth of the pupil;
- **KS2_ACADYR** – the academic year;
- **KS2_MOB1** – indicates if pupil joined school in the latest academic year (year 6);
- **KS2_MOB2** – indicates if pupil joined school in the previous academic year (year 5); and
- **KS2_MOB3** – indicates if pupil joined school in the first two years of the key stage (years 3 or 4).

2.3 School Identifiers

The school where the pupil undertook the KS2 tests can be identified using the following variables:

- **KS2_LA** – the Local Authority (LA) that the school reports to (3-digit code);
- **KS2_LA_9CODE** – the Local Authority (LA) that the school reports to (new 9-digit code);
- **KS2_ESTAB** – a 4-digit establishment number identifying the individual school;
- **KS2_LAESTAB** – a concatenation of the **KS2_LA** and **KS2_ESTAB** variables;
- **KS2_URN** – a 6-digit unique school identifier number, primarily used by Ofsted;
- **KS2_TOE_CODE** – type of establishment code (see section 2.6.2); and

- **KS2_NFTYPE** – institution type (see section 2.6.2);

There are also four additional indicators for the type of school:

- **KS2_MMSCH** – maintained mainstream schools (i.e. excluding maintained special schools) and academies and CTCs, KS1_NFTYPE is 20-25, 50-52;
- **KS2_MMSCH2** – maintained mainstream schools (i.e. excluding maintained special schools) (KS1_MMSCH2 excludes academies and CTCs), KS1_NFTYPE is 21-24;
- **KS2_MSCH** – maintained schools (including maintained special schools) and academies and CTCs, KS1_NFTYPE is 20-27, 50-52; and
- **KS2_MSCH2** – maintained schools (including maintained special schools) (KS1_MSCH2 excludes academies and CTCs), KS1_NFTYPE is 21-24, 26, 27.

(Note: academies are usually for pupils of secondary school age but there are a small number which also cater for pupils of primary school age.)

2.4 Pupil characteristics

Three termly censuses on the characteristics of pupils are carried out by schools at the beginning of the spring, summer and autumn terms. Standard KS2 extracts include Census characteristics from the main spring census, in both the current academic year, as well as the previous six years. Data from the summer and autumn Censuses can be provided where requested. For some pupil characteristics, data is also collected with PT data, but these have not been listed below (see section 2.5 on duplicated variables for more details). The main (non-sensitive) pupil characteristics collected and provided on the standard extract are listed in the following table.

Variable	Description
ETHNICGROUPMINOR_SPRxx	The minor ethnic group of the pupil (aggregated variable from ethnicity)
ETHNICGROUPMAJOR_SPRxx	The major ethnic group of the pupil (aggregated variable from ethnicity)
FSMELIGIBLE_SPRxx	An indicator variable for whether the pupil is entitled to free school meals
EVERFSM_3_SPRxx	Indicates if the pupil has been recorded as eligible for free school meals in any Spring Census in the last 3 years
EVERFSM_6_SPRxx	Indicates if the pupil has been recorded as eligible for free school meals in any Spring Census in the last 6 years
EVERFSM_ALL_SPRxx	Indicates if pupil has ever been recorded in any Spring Census as being eligible for free school meals
GANDTINDICATOR_SPRxx	Indicates if the pupil is in the Gifted and Talented cohort for the school
MODEOFTRAVEL_SPRxx	Indicates the usual mode of transport

	used by the pupil for getting to school
ENROLSTATUS_SPRxx	Enrolment status of pupil (e.g. current school, or guest pupil)
ENTRYDATE_SPRxx	Date of entry to current school
LEAVINGDATE_SPRxx	Date of leaving current school
PARTTIME_SPRxx	Indicates if the pupil is part-time or not
BOARDER_SPRxx	Indicates if the pupil is a boarder or not
NCYEARACTUAL_SPRxx	The year group in which the pupil is taught for the majority of their time, regardless of their chronological age
SENPROVISION_SPRxx	Provision type under the SEN (Special Educational Needs) Code of Practice
SENPROVISIONMAJOR_SPRxx	The pupil's major SEN provision group
SENUNITINDICATOR_SPRxx	Indicates if a pupil with SEN in a mainstream school is a member of a SEN unit
RESOURCEDPROVISION-INDICATOR_SPRxx	Indicates if a pupil with SEN in a mainstream school is a member of a resourced provision
LLSOA_SPRxx	Super Output Area derived from pupil's postcode
IDACISCORE_SPRxx	'Income Deprivation Affecting Children' score
IDACIRANK_SPRxx	Rank of IDACI
HOMELA_SPRxx	Home Local Authority 3-digit code derived from pupil's postcode
HOMELA_9CODE_SPRxx (new for 2011)	Home Local Authority 9-digit code derived from pupil's postcode
MOBILITYIND_SPRxx	Flag to indicate if pupil's postcode has changed from previous Spring Census
DISTCURRSCH_SPRxx	Distance in miles from pupil's postcode to current school
DISTNEARSCH_SPRxx	Distance in miles from pupil's postcode to nearest suitable school
NEARSCHLAESTAB_SPRxx	LAESTAB code of nearest suitable school to pupil's postcode
PERSISTENTABSENTEE_2Term_abxx / PERSISTENTABSENTEE_2Term15_abxx	Persistent absentee indicators covering the Autumn and Spring terms 2010/11. (A persistent absentee (PA) is defined as having 52 or more sessions of absence (authorised and unauthorised) across the two terms, around 20 per cent overall absence rate). A second PA indicator has been introduced for 2011 where the definition is having 38 or more sessions of absence (authorised and unauthorised) across the two terms, around 15 per cent overall absence rate.)

2.5 Sensitive data items

Variables on the NPD can be divided into three types; identifiable/sensitive variables that cannot be anonymised, identifiable/sensitive that can be aggregated to become non-sensitive, and non-sensitive. NPD extracts will normally only include non-sensitive variables and aggregated variables. Below is a more detailed explanation of the identifiable/sensitive variables:

- **Identifiable/sensitive variables which cannot be aggregated** – these variables can be supplied to researchers, but when requesting these data items a Business Case must be completed, and each request is assessed by the Head of Profession for Statistics. Only after the business case has been approved is the data released. The sensitive variables are:

Variable	Description
KS2_SURNAME, KS2_FORENAMES, SURNAME_SPRxx, PREFERREDSURNAME_SPRxx, FORMERSURNAME_SPRxx, FORENAME_SPRxx, MIDDLENAMES_SPRxx	The surname, preferred surname, former surname, forename and middle name of the pupil.
KS2_AGEINYR	Age within academic year, relative to 1 st September. A pupil born on 1 st September will be 1 and 31 st August will be 0. Three to four birthdays are grouped together.
UPN_SPRxx, FORMERUPN_SPRxx	The Unique Pupil Number (UPN) and former UPN of the pupil.
ADDRESSLINE1_SPRxx – ADDRESSLINE5_SPRxx, SAON_SPRxx, PAON_SPRxx, STREET_SPRxx, LOCALITY_SPRxx, TOWN_SPRxx, ADMINISTRATIVEAREA_SPRxx, POSTTOWN_SPRxx	Details of the home address of the pupil in either address line format (address line 1-5) or BS7666 address format (sub-dwelling, dwelling, street, locality, town, administrative area and post town).
SERVICECHILD_SPRxx	Indicates if a pupil has parent(s) who are Service personnel serving in regular military units of all forces and exercising parental care and responsibility.
PRIMARYSENTYPE_SPRxx, SECONDARYSENTYPE_SPRxx	Primary and secondary SEN (Special Educational Needs) type, SEN unit indicator, resourced provision indicator (indicating whether or not a pupil with SEN in a mainstream school is a member of an SEN Unit or a resourced provision).

- **Identifiable/sensitive variables which can be aggregated** – the un-aggregated data items can be supplied to external researchers, but the same release arrangements apply as mentioned above. Aggregated variables are included on standard data extracts:

Variable	Description	Aggregated variable	Description
DOB_SPRxx	Date of birth	KS2_AGE_START	Age of pupil at the start of the academic year (in full years)
		KS2_MONTH_PART	Month part of age of the pupil at the start of the academic year
		KS2_YEARORBIRTH	Year in which the pupil was born
		KS2_MONTHOFBIRTH	Month in which the pupil was born
ETHNICITY_SPRxx	Ethnic code (98 possible values)	ETHNICGROUPMINOR_SPRxx	Ethnicity aggregated into 23 minor ethnic groups
		ETHNICGROUPMAJOR_SPRxx	Ethnicity aggregated into 7 major ethnic groups
LANGUAGE_SPRxx	Language code (332 possible values)	LANGUAGEGROUPMINOR_SPRxx	Language aggregated into 10 minor language groups
		LANGUAGEGROUPMAJOR_SPRxx	Language aggregated into 3 major language groups
POSTCODE_SPRxx	Home postcode	LLSOA_SPRxx	Super output area- National Statistics Postcode Lookup Lower Layer Super Output Area derived from pupil's postcode (minimum population of 1,000 per area)

2.6 Duplicated variables

2.6.1 Census and attainment variables

Sometimes there are seemingly two sets of variables on the extracts which refer to the same thing, for example KS2_LA and LA_SPRxx, which both give the Local Authority of the school. This is because the dataset is drawn from two different sources; census data and PT data. Variables beginning with **KS2_** are taken from PT data, whilst variables ending in **_SPRxx** are taken from census data. When PT data is sent to schools for checking, schools may update the census-related variables in the PT data (although not all schools will necessarily do so). This then means that in some cases there will be differences between the same variable on the PT data (updated in June) and on the census data (taken in January). For KS2 analyses by local authority, KS2_LA should be used as the LA variable. When presenting pupil characteristics or breakdowns based on pupil residence, the census versions of these variables should be used.

The variables affected at KS2 are:

- KS2_FSM and FSM_SPRxx (Free School Meals indicators)
- KS2_SENPS/KS2_SENA and SENPROVISION_SPRxx (SEN indicators)
- KS2_FLANG and LANGUAGEGROUPLMINOR_SPRxx (language indicators)
- KS2_WIRI - KS2_UNCLA and ETHNICGROUPLMINOR_SPRxx (ethnicity variables)
- KS2_FSMWIRI - KS2_FSMUNCLA and ETHNICGROUPLMINOR_SPRxx (a combination of the FSM and ethnic group variables)
- KS2_IDACI and IDACI_SPRxx (deprivation variables)
- KS2_LA and LA_SPRxx (local authority – 3-digit code)
- KS2_LA_9CODE and LA_9CODE_SPRxx (local authority – 9-digit code)
- KS2_ESTAB and ESTAB_SPRxx (establishment number as assigned by DfE)
- KS2_LAESTAB and LAESTAB_SPRxx (concatenation of LA and ESTAB)
- KS2_URN and URN_SPRxx (school's Unique Reference Number).

Differences may also occur between the fields KS2_MOB1 - KS2_MOB3 and ENTRYDATE_SPRxx. If a school has merged or closed and reopened for some minor change, the school correctly resets admission dates used in the calculations of KS2_MOB1 – KS2_MOB3.

2.6.2 School type variables

There are two variables on the extract which refer to the institution type of the school attended by the pupil: KS2_TOE_CODE and KS2_NFTYPE. KS2_TOE_CODE (type of establishment) is taken from National Curriculum test registration and attainment data, for which an Edubase extract taken at the start of the academic year is used to compile registrations (early on in the cycle), whilst KS2_NFTYPE comes from the School and College Database (SCDB), which is compiled from the School Census and Edubase. The most up-to-date version of SCDB is used to derive NFTYPE, and therefore this is the most reliable variable to use to identify the institution type.

A number of schools became academies during 2010/11 and KS2_NFTYPE will reflect the latest academy status of schools at the time of the KS2 tests. KS2_TOE_CODE may instead reflect the original institution type before conversion.

2.7 Duplicated pupils

Duplicate records will be eliminated wherever possible by merging records and taking the best results for each subject.

A pupil may appear more than once in the KS2 data, resulting, for example, from a change of school, or dual registration. These records are valid and will

remain in KS2 NPD extracts.

The following table is used to determine the highest level for use in discounting prior and current attainment results for the creation of KS2 data. Where a pupil has two or more result sets with the same KS2 level, marks data are used to determine which results are discounted. If levels for TA are the same, the first result is taken.

Test Level		KS2	TA	Rank
level	description			
Y	DfE- Ineligible	Y		1
Q	Malpractice	Q		2
8	Achieved Level 8			
7	Achieved Level 7			
6	Achieved Level 6		6	
5	Achieved Level 5	5	5	3
4	Achieved Level 4	4	4	4
3	Achieved Level 3	3	3	5
2	Achieved Level 2	2	2	6
1	Achieved Level 1		1	7
W	Working towards level 1		W	8
N	KS2: No test level awarded	N		9
				10
B	Below the level of the test	B		11
T	Unable to access the tests	T		12
D	Disapplied		D	13
A	Absent	A	A	14
F	Test done in Future	F	F	15
L	Left	L	L	16
X	Lost	X		17
S	Pending maladmin	S		18
M	Missing	M	M	19
P	Past results	P	P	20
Z	Ineligible	Z	Z	21

The following table is used to determine the highest level for KS2 TA data used in discounting attainment results after Datafeed 5 in the NPD:

TA Level		Rank
6	Achieved Level 6	1
5	Achieved Level 5	2
4	Achieved Level 4	3
3	Achieved Level 3	4
2	Achieved Level 2	5
1	Achieved Level 1	6
W	Working towards level 1	7
D	Disapplied	8

A	Absent	9
F	Future results	10
L	Left	11
M	Missing	12
P	Past results	13
Z	Ineligible	14
Null or invalid results		15

Occasionally, a pupil will appear more than once on the census, resulting, for example, from a change of school, or dual registration. Rules for deriving the main record have been agreed with the data owners to eliminate as many of these duplicates as possible, such as looking at enrolment type and school type. However, there may be some cases where it is not possible to guarantee which census entry is the main record. In these cases, a document will be provided with the relevant extract, detailing the pupil matching reference of all the pupils affected. This then enables customers to identify whether or not the data is required and remove any extra records accordingly.

It is also possible when matching to prior attainment data at KS1 or EYFSP that pupils could appear more than once, for example, having undergone assessments at more than one school, or retaking assessments. In these cases, 1 record is derived for each pupil where possible, combining elements of different records.

Please note, there are 28 duplicate records in the standard 2011 KS2 unamended NPD extract. These duplicates are inherent in the KS2 data - no extra duplicates are created when linking KS2 to prior KS1 attainment or Census in the standard extract. However any customised KS2 extracts that require KS2 records linking to prior EYFSP assessment will contain an extra 89 duplicate KS2 records caused by linking to unresolved duplicates in the 2005 EYFSP data.

2.8 Production rules

Some of the variables on the NPD, especially indicator variables, are derived from other variables, rather than collected directly from schools. The production rules for creating these variables can be found in Annex A.

2.8.1 Data cleaning

On entering the data into the NPD, there are a number of cleaning rules in place to ensure that the data is valid, which have been in place since 2006. These explain how to amend values where the value originally entered is not valid for that particular variable. Cleaning rules are in place for current attainment and prior attainment variables on the extract. An example would be where a pupil is assigned a mark for a test paper which is outside the range of the paper. In this case, the pupil's mark would be converted to 'IN' for invalid.

Where an unusual value is spotted (on any variables in the dataset) but no

cleaning rules are in place to deal with this particular issue, these are queried individually. An example of this would be a value of 'P' for a pupil's surname. A decision is made on an individual case basis to either keep the record as it is, or to classify it as invalid. In the latter case, the entry will be replaced with 'IN' (for invalid).

3. Reproducing published figures

3.1 National Curriculum Assessments

Two main subjects were tested at the end of Key Stage 2 in 2011: English and Mathematics. Science tests were discontinued in 2010. The English level is aggregated from separate reading and writing tests. Pupils are expected to have reached level 4 or above by the end of KS2. Teacher-assessed levels are also submitted to the department and reported in the SFRs, and will be reported at school level in the Performance Tables.

3.1.1 Data selection criteria

Tests:

- **National results**- select pupils with the criteria **KS2_NATRES = 1** for all schools or **KS2_NATMTDRES = 1** for maintained schools only. See Annex B for the types of schools included.

To produce results for subject breakdowns, include the additional criteria **KS2_VALENG = 1** or **KS2_VALMAT = 1** for English and maths respectively, which indicate if a pupil's results should be included for that subject.

- **Local Authority (LA) level results**- select pupils with the criteria **KS2_LARES = 1**. See Annex B for the types of schools included.

To produce results for subject breakdowns, include the additional criteria **KS2_ELIGENG = 1** or **KS2_ELIGMAT = 1** for English and maths respectively, which indicate if a pupil's results should be included for that subject.

In 2011, one school did not administer the KS2 tests. These pupils will have 'M' for their test results. Pupils with 'M' are included as eligible results and so will have **KS2_ELIGENG = 1**. If you wish to exclude pupils in this school from the results, then you should use **KS2_ELIGENGLA = 1** or **KS2_ELIGMATLA = 1** instead for English and maths respectively.

- **School level results** – select pupils with the criteria **KS2_SCHRES = 1**. See Annex B for the types of schools included. Published figures are suppressed where the denominator is less than 10.

Similarly to LA level results, to produce results for subject breakdowns, include the additional criteria **KS2_ELIGENG = 1** or **KS2_ELIGMAT = 1** for English and maths respectively, which indicate if a pupil's results should be included for that subject.

Teacher Assessments:

- **National results**- select pupils with the criteria **KS2_NATRESTA = 1** for

all schools or **KS2_NATMTDRESTA = 1** for maintained schools only. See Annex B for the types of schools included.

To produce results for subject breakdowns, include the additional criteria **KS2_VALENGTA = 1**, **KS2_VALMATTA = 1** or **KS2_VALSCITA** for English, maths and science respectively, which indicate if a pupil's results should be included for that subject.

- **Local Authority (LA) level results**- select pupils with the criteria **KS2_LARESTA = 1**. See Annex B for the types of schools included.

To produce results for subject breakdowns, include the additional criteria **KS2_ELIGENGTA = 1**, **KS2_ELIGMATTA = 1** or **KS2_ELIGSCITA = 1** for English, maths and science respectively, which indicate if a pupil's results should be included for that subject.

- **School level results** – select pupils with the criteria **KS2_SCHRESTA = 1**. See Annex B for the types of schools included. Published figures are suppressed where the denominator is less than 10.

Similarly to LA level results, to produce results for subject breakdowns, include the additional criteria **KS2_ELIGENGTA = 1**, **KS2_ELIGMATTA = 1** or **KS2_ELIGSCITA = 1** for English, maths and science respectively, which indicate if a pupil's results should be included for that subject.

3.1.2 Published tables

The following guidance describes the methodology used to produce the KS2 figures published in the 'Interim Results for Key Stage 2 & 3 National Curriculum Assessments in England, 2010/11' Statistical First Releases (see section 3.4 for web link).

Please note, the standard NPD extract excludes a number of potential duplicate cases identified during the NPD matching process, which may cause differences with the dataset used in the production of the following KS2 Statistical First Release (SFR) tables. Therefore, it may not be possible to replicate exactly certain published figures in this SFR using a NPD KS2 extract.

Tables 1-4

Table	Subject	Valid levels ^{1,2}	Variable indicating level achieved by pupil	'Achieved level 4 or above' indicator
1, 2, 4	English test	T, A, N, B, Q, 2, 3, 4, 5	KS2_ENGLEV	KS2_LEVXENG
1, 2, 4	Mathematics	T, A, N, B,	KS2_MATLEV	KS2_LEVXMAT

	test	Q, 2, 3, 4, 5		
2, 4	English teacher assessment	A, D, W, 1, 2, 3, 4, 5, 6	KS2_ENGLEV TA	KS2_LEVXENG TA
2, 4	Mathematics teacher assessment	A, D, W, 1, 2, 3, 4, 5, 6	KS2_MATLEV TA	KS2_LEVXMAT TA
2, 4	Science teacher assessment	A, D, W, 1, 2, 3, 4, 5, 6	KS2_SCILEV TA	KS2_LEVXSCIT A

1 T- pupil working at the level of the assessment but unable to take the test, A- pupil absent, N- pupil took the test but failed to register a level, B- pupil working below the level of the test, Q- maladministration (not shown separately in published tables), D- disapplied from National Curriculum, W- pupil working towards Level 1.

2 Use the sum of the number of pupils achieving one of these levels as the denominator when calculating percentages of pupils achieving certain levels.

The following attainment level indicators are also provided in the dataset:

Tests:

Subject	Level 5 or above	Level 2 or below
English	KS2_LEVAXENG	KS2_LEVLENG
Mathematics	KS2_LEVAXMAT	KS2_LEVLMAT

Teacher Assessments:

Subject	Level 5 or above	Level 2 or below
English	KS2_LEVAXENGTA	KS2_LEVLENGTA
Mathematics	KS2_LEVAXMATTA	KS2_LEVLMATTA
Science	KS2_LEVAXSCITA	KS2_LEVLSCITA

Tables 5a and 5b

These can be produced using the indicator values and selection criteria above, for example, to produce the percentage of pupils achieving level 4 or above in both English and maths, you would select pupils with KS2_NATRES=1, KS2_VALENG=1 and KS2_VALMAT=1 and produce a cross tabulation of KS2_LEVXENG and KS2_LEVXMAT.

Table 10 – point scores

Each Key Stage level is assigned a point score in order to calculate average point scores. These are assigned in the following way:

Level	Point score
Missing	Set as NULL
A (absent)	Set as NULL
D (disapplied)	Set as NULL
IN (invalid)	Set as NULL
B (working towards level of test)	15

N (not awarded a test level)	15
2	15
3	21
4	27
5	33
6	39

The variables which contain the point scores for each pupil are as follows:

Subject	Variable
English	KS2_ENGPOINTS
Mathematics	KS2_MATPOINTS

3.1.3 Use of test marks and fine grades

In addition to National Curriculum KS levels, the KS2 extracts contain pupils' marks on the original tests where these are available. Users of these test marks should bear in mind the following:

- Mark fields will be missing where pupils do not sit the test, for example pupils working below test levels whose overall level is B. Therefore use of marks data can introduce bias by omitting lower attaining pupils;
- Marks are not always consistent with test levels, for instance where there is a review the corrected level will appear in the NPD following the checking process, but the corresponding amended test mark may never be captured; and
- The numbers of marks within a level varies between KS levels on each test, and also varies between years, so findings expressed in marks can be difficult to interpret.

For the purpose of VA calculations, fine grades have been provided on the extract, which provide attainment information which is more finely graded than whole KS levels, whilst overcoming all of the issues set out above. They are produced using the algorithms set out in Annex D and are contained in the variables **KS2_ENGFINE** and **KS2_MATFINE**. Finely graded point scores can then be derived from these variables, as described in annex D. The overall fine graded outcome point score is contained in the variable **KS2_KS2APSG** (see calculation in Annex A1).

3.2 Pupil characteristics

The SFR 'Key Stage 2 Attainment by Pupil Characteristics' (see section 3.4 for link) publishes information on the attainment of KS2 pupils broken down by pupil characteristics. Data is reported for maintained schools only, i.e. KS2_NFTYPE in the ranges 20-27 and 50-52, or KS2_MSCH = 1. The variables **KS2_NPDDEN_LA** and **KS2_NPDDEN_NAT** in the KS2 NPD extract are flags that can be used to identify those records that contribute to the denominators of NPD-based KS2 percentage figures at LA and National level respectively, such as those published in this Pupil Characteristics SFR;

however, they should not be used to try and replicate figures in the KS2 National Curriculum Assessment SFR, which does not use the NPD as its data source.

Attainment test results are broken down for English and maths. Pupils with valid results for each subject are selected using the same criteria as those in the table above for the KS2 National Curriculum Assessments SFR (using the variables KS2_VALENG and KS2_VALMAT) and the same variables can also be used to give the attainment level for each pupil.

To reproduce breakdowns by pupil characteristics, the following variables should be used:

- **ETHNICGROUPMINOR_SPRxx** – ethnicity;
- **LANGUAGEGROUPMINOR_SPRxx** – first language;
- **FSMELIGIBLE_SPRxx** – free school meals eligibility; and
- **SENPROVISION_SPRxx** – special educational needs indicator.

The variable **KS2_GENDER** can be used to break down the results by gender.

3.3 Suppression of published figures

Some published tables have small numbers, suppressed with either 'x' or '.'. This means that it will not always be possible to verify all reproduced figures against those published. Figures in published tables have been suppressed according to the following rules:

- If a cell count for eligible pupils is either 1 or 2, then the cell count will be marked with an 'x'. Also, any percentages derived from this count will be suppressed with an 'x'. To prevent figures being re-derived, other figures may also be suppressed, for example if a figure for girls is suppressed, the figure for boys will also be suppressed, to prevent re-derivation of the girls figure from the total. A total figure of 1 or 2 will also be suppressed.
- If a cell count for eligible pupils is zero, then the percentage will be marked as '.' (but the cell count will remain as zero).
- Percentages are also suppressed if the number achieving a particular indicator is 0, 1 or 2 or the number not achieving that indicator is 1 or 2. Secondary suppressions will also be applied here.

3.4 Links to publications

- School level (2010) Achievement and Attainment Tables:
http://www.education.gov.uk/performance/primary_10.shtml
- Interim Results for Key Stage 2 & 3 National Curriculum Assessments in England, 2010/11:

<http://www.education.gov.uk/rsgateway/DB/SFR/s001018/index.shtml>

- Interim Percentage of Pupils Making Expected Progress in English and in Mathematics between Key Stage 1 and Key Stage 2 in England 2010/11:

<http://www.education.gov.uk/rsgateway/DB/SFR/s001023/index.shtml>

- Key Stage 2 Attainment by Pupil Characteristics, in England 2009/10:

<http://www.education.gov.uk/rsgateway/DB/SFR/s000972/index.shtml>

Annex A: Production Rules

The standard extract at KS2 merges KS2 attainment data with spring census data and with previous attainment at KS1. The table below shows how certain variables on the NPD are derived and valid values that these variables can take. Variables in bold are included with standard extracts, and variables not in bold have to be specifically requested.

A1 Key Stage 2 attainment data

Variable	Description	Value	Conditions	Default value (if conditions not met)
KS2_MMSCH	Maintained mainstream school, academy or CTC (excluding maintained special schools)	=1 IF	KS2_NFTYPE = ANY(20-25,50-52)	ELSE =0
KS2_MMSCH2	Maintained mainstream school (excludes academies, CTCs and maintained special schools)	=1 IF	KS2_NFTYPE = ANY(21-24)	ELSE =0
KS2_MSCH	Maintained school, academy or CTC (including maintained special schools)	=1 IF	KS2_NFTYPE = ANY(20-27,50-52)	ELSE =0
KS2_MSCH2	Maintained school, including maintained special schools (excluding academies and CTCs)	=1 IF	KS2_NFTYPE = ANY(21-24, 26-27)	ELSE =0
KS2_MOB1	Pupil joined in latest academic year (year 6)	=1 IF	ENTRYDATE_S PRxx>200(xx-1)- 06-30 OR LAESTAB_SPRx x<>(concatenate d LA and Estab fields where Link_UniqueRow Number=NULL)	ELSE =0
KS2_MOB2	Pupil joined in previous academic year (year 5)	=1 IF	ENTRYDATE_S PRxx>200(xx-2)- 06-30 AND KS2_MOB1<>1	ELSE =0
KS2_MOB3	Pupil joined in first two years of keystage (year 3 or 4)	=1 IF	ENTRYDATE_S PRxx>200(X-4)- 06-30 AND KS2_MOB1<>1 AND KS2_MOB2<>1	ELSE =0

KS2_AGEINYR	Age within academic year (derived from DOB and refers to age within academic year, relative to 1st September (a pupil born on 1st September will be 1 and 31st August will be 0)).	0 - 1		Missing values default to 0.5
KS2_AMDPUPIL	Type of pupil amendment made either prior to mail out or as a result of checking stage	=ANY(A,CL,D,F,IN, J,N,NR,R,TI,TO,TZ,Z) IF (see code list on data tables)	Pupil details have been amended	ELSE=NULL
KS2_ENDKS	Pupil is at end of KS2	=1 IF	Pupil has at least one valid result in English, maths or science, is not in a previous extract for all 3 subjects, and is not taking a subject in a later year	ELSE=0
KS2_EXAMYR_EN	English examination year	= 20xx IF	Pupil took exam that year	N/A
KS2_EXAMYR_MA	Maths examination year	= 20xx IF	Pupil took exam that year	N/A
KS2_ELIGREAD	Pupil included in eligible pupil number for reading	=1 IF	KS2_ENGREAD LEV = ANY(A,B, M,N,P,T,2-5,Q,S)	ELSE=0
KS2_ELIGWRIT	Pupil included in eligible pupil number for writing	=1 IF	KS2_ENGWRTLEV = ANY(A,B, M,N,P,T,2-5,Q,S)	ELSE=0
KS2_ELIGENG	Pupil included in eligible pupil number for English	=1 IF	KS2_ENGLEV = ANY(A,B, M,N,P,T,2-5,Q,S)	ELSE=0
KS2_ELIGENGTA	Pupil included in eligible pupil number for English TA	=1 IF	KS2_ENGLEVTA = ANY(1-6, A, D, W)	ELSE=0
KS2_ELIGMAT	Pupil included in eligible pupil number for maths	=1 IF	KS2_MATLEV = ANY(A,B, M,N,P,T,2-5,Q,S)	ELSE=0
KS2_ELIGMATTA	Pupil included in eligible pupil number for maths TA	=1 IF	KS2_MATLEVTA = ANY(1-6, A, D, W)	ELSE=0
KS2_ELIGENGLA	Pupil achieved eligible result in English for LA calculations for schools that administered the tests	=1 IF	KS2_ENGLEV = ANY(A,B, M,N,P,T,2-5,Q,S) and REFTESTR <>1	ELSE=0

KS2_ELIGREADL A	Pupil achieved eligible result in Reading for LA calculations for schools that administered the tests	=1 IF	KS2_ENGREAD LEV = ANY(A,B, M,N,P,T,2-5,Q,S) and REFTESTR <>1	ELSE= 0
KS2_ELIGWRITLA	Pupil achieved eligible result in Writing for LA calculations for schools that administered the tests	=1 IF	KS2_ENGWRITL EV = ANY(A,B, M,N,P,T,2-5,Q,S) and REFTESTR <>1	ELSE= 0
KS2_ELIGMATLA	Pupil achieved eligible result in Maths for LA calculations for schools that administered the tests	=1 IF	KS2_MATLEV = ANY(A,B, M,N,P,T,2-5,Q,S) and REFTESTR <>1	ELSE= 0
KS2_ELIGSCITA	Pupil included in eligible pupil number for science	=1 IF	KS2_SCILEVTA = ANY(1-6, A, D, W)	ELSE= 0
KS2_VALENG	Pupil included in eligible pupil number for English and does not have missing, unmatched or lost results	=1 IF	KS2_ENGLEV = ANY(A,B,N,T,2-5, Q)	ELSE= 0
KS2_VALENGTA	Pupil included in the eligible pupil number for English TA and does not have missing, unmatched or lost results (including overseas pupils)	=1 IF	KS2_ENGLEVTA = ANY(1-6, A, D, W)	ELSE= 0
KS2_VALREAD	Pupil included in eligible pupil number for English reading and does not have missing, unmatched or lost results	=1 IF	KS2_ENGREAD LEV = ANY(A,B,N,T,2-5, Q)	ELSE= 0
KS2_VALWRIT	Pupil included in eligible pupil number for English writing and does not have missing, unmatched or lost results	=1 IF	KS2_ENGWRITL EV = ANY(A,B,N,T,2-5, Q)	ELSE= 0
KS2_VALMAT	Pupil included in eligible pupil number for maths and does not have missing, unmatched or lost	=1 IF	KS2_MATLEV = ANY(A,B,N,T,2-5, Q)	ELSE= 0

	results			
KS2_VALMATTA	Pupil included in the eligible pupil number for Maths TA and does not have missing, unmatched or results (including overseas pupils).	=1 IF	KS2_MATLEVTA = ANY(1-6, A, D, W)	ELSE= 0
KS2_VALSCITA	Pupil included in the eligible pupil number for Science TA and does not have missing, unmatched or lost results (including overseas pupils).	=1 IF	KS2_SCILEVTA = ANY(1-6, A, D, W)	ELSE= 0
KS2_ENGTIER	English paper sat by pupil	=ANY(35,A,B,F, L,M,P,T,Z,IN)	N/A	N/A
KS2_ENGREADM RK	Marks achieved in English reading test	=ANY(0-50,A,M, IN)	N/A	N/A
KS2_ENGWITMR K	Marks achieved in English writing test	=ANY(0-50,A,M, IN)	N/A	N/A
KS2_ENGTOTMR K	Total marks achieved in English test (sum of reading and writing tests)	=ANY(0-100,A,M, IN)	N/A	N/A
KS2_ENGREADLE V	National curriculum level awarded for English reading test (forms half of overall English level)	=ANY(3-5,A,B,F, L,M,N,P,Q,S,T,X, Y,Z,IN)	N/A	N/A
KS2_ENGWITLE V	National curriculum level awarded for English writing test (forms half of overall English level)	=ANY(3-5,A,B,F, L,M,N,P,Q,S,T,X, Y,Z,IN)	N/A	N/A
KS2_ENGLEV	National curriculum level awarded for English test	=ANY(2-5,A,B,F, L,M,N,P,Q,S,T,X, Y,Z,IN)	N/A	N/A
KS2_ENGLEVTA	National curriculum level awarded for English teacher assessment	=ANY(1-6,A,D,F, L,M,P,W,Z, IN)	N/A	N/A
KS2_ENGPOINTS	English attainment point score	= Points allocated to KS2_ENGLEV (see annex C)	KS2_ENGLEV =ANY(B,N,2-5)	ELSE= NULL

KS2_ENGFINE	Finely graded level of English test	=2.5-5.99 IF (see annex D)	KS2_ENGLEV =ANY(B,N,2-5)	ELSE= NULL
KS2_MATTIER	Maths paper sat by pupil	=ANY(35,A,B,F,H ,L,M,P,T,Y,Z,IN)	N/A	N/A
KS2_MATTESTAMRK	Marks achieved in test A of the maths test	=ANY(0-40,A,M, IN)	N/A	N/A
KS2_MATTESTBMRK	Marks achieved in test B of the maths test	=ANY(0-40,A,M, IN)	N/A	N/A
KS2_MATARTHMRK	Marks achieved in mental arithmetic test of maths test	=ANY(0-20,A,M, IN)	N/A	N/A
KS2_MATTOTMRK	Total marks achieved in maths test (sum of test A, test B and mental arithmetic test)	=ANY(0-100,A,M, IN)	N/A	N/A
KS2_MATLEV	National curriculum level awarded for maths test	=ANY(2-5, A, B, F, H, L, M, N, P, Q,S,T,X, Y,Z,IN)	N/A	N/A
KS2_MATLEVTA	National curriculum level awarded for maths teacher assessment	=ANY(1-6,A,D,F, L,M,P,W,X,Y,Z, IN)	N/A	N/A
KS2_MATPOINTS	Maths attainment point score	= Points allocated to KS2_MATLEV (see annex C)	KS2_MATLEV =ANY(B,N,2-5)	ELSE= NULL
KS2_MATFINE	Finely graded level of maths test	=2.5-8.00 IF (see annex D)	KS2_MATLEV =ANY(B,N,2-5)	ELSE= NULL
KS2_SCILEVTA	National curriculum level awarded for science teacher assessment	=ANY(1-6,A,D,F, L,M,P,W,X,Y,Z, IN)	N/A	N/A
KS2_LEVLENG	Achieved level 2 or below (low attainment) in KS2 English	=1 IF	KS2_ENGLEV= ANY(N,B,2)	ELSE= 0
KS2_LEVLMAT	Achieved level 2 or below (low attainment) in KS2 maths	=1 IF	KS2_MATLEV= ANY(N,B,2)	ELSE= 0
KS2_LEVLEMSTA	Achieved level 2 or below (low attainment) in KS2 English, maths and science teacher assessment	=1 IF	KS2_ENGLEVTA = ANY(W,1,2) AND KS2_MATLEVTA = ANY(W,1,2) AND KS2_SCILEVTA= ANY(W,1,2)	ELSE= 0
KS2_LEVXREAD	Achieved level 4 or above (expected level) in KS2 English reading	=1 IF	KS2_ENGREAD LEV= ANY(4,5)	ELSE= 0

KS2_LEVXWRIT	Achieved level 4 or above (expected level) in KS2 English writing	=1 IF	KS2_ENGWRTL EV= ANY(4,5)	ELSE= 0
KS2_LEVXENG	Achieved level 4 or above (expected level) in KS2 English	=1 IF	KS2_ENGLEV= ANY(4,5)	ELSE= 0
KS2_LEVXENGTA	Achieved level 4 or above (expected level) in KS2 English teacher assessment	=1 IF	KS2_ENGLEVTA = ANY(4,5,6)	ELSE= 0
KS2_LEVXMAT	Achieved level 4 or above (expected level) in KS2 maths	=1 IF	KS2_MATLEV= ANY(4,5)	ELSE= 0
KS2_LEVXMATTA	Achieved level 4 or above (expected level) in KS2 maths teacher assessment	=1 IF	KS2_MATLEVTA = ANY(4,5,6)	ELSE= 0
KS2_LEVXSCITA	Achieved level 4 or above (expected level) in KS2 science teacher assessment	=1 IF	KS2_SCILEVTA= ANY(4,5,6)	ELSE= 0
KS2_LEVXENGMA T	Achieved level 4 or above (expected attainment) in KS2 English and maths	=1 IF	KS2_LEVXENG= 1 AND KS2_LEVXMAT= 1	ELSE= 0
KS2_LEVXEMSTA	Achieved level 4 or above (expected attainment) in KS2 English, maths and science teacher assessment	=1 IF	KS2_ENGLEVTA = ANY(4,5,6) AND KS2_MATLEVTA = ANY(4,5,6) AND KS2_SCILEVTA= ANY(4,5,6)	ELSE= 0
KS2_LEVAXREAD	Achieved level 5 in KS2 English reading	=1 IF	KS2_ENGREAD LEV=5	ELSE= 0
KS2_LEVAXWRIT	Achieved level 5 in KS2 English writing	=1 IF	KS2_ENGWRTL EV=5	ELSE= 0
KS2_LEVAXENG	Achieved level 5 in KS2 English	=1 IF	KS2_ENGLEV=5	ELSE= 0
KS2_LEVAXENGTA A	Achieved Level 5 or above in KS2 English teacher assessment	=1 IF	KS2_ENGLEVTA =ANY(5,6)	ELSE= 0
KS2_LEVAXMAT	Achieved level 5 in KS2 maths	=1 IF	KS2_MATLEV=5	ELSE= 0
KS2_LEVAXMATT A	Achieved level 5 or above in KS2 maths teacher assessment	=1 IF	KS2_MATLEVTA = ANY(5,6)	ELSE= 0
KS2_LEVAXSCITA	Achieved level 5 or above in KS2 science teacher	=1 IF	KS2_SCILEVTA= ANY(5,6)	ELSE= 0

	assessment			
KS2_LEVAXEMST A	Achieved level 5 or above in KS2 English, maths and science teacher assessment	=1 IF	KS2_ENGLEVT A = ANY(5,6) AND KS2_MATLEVTA = ANY(5,6) AND KS2_SCILEVTA = ANY (5,6)	ELSE= 0
KS2_LEVBXREAD (new for 2011)	Achieved level 3 or below in KS2 English reading	=1 IF	KS2_ENGREAD LEV=ANY(N,2,3, B)	ELSE= 0
KS2_LEVBXWRIT (new for 2011)	Achieved level 3 or below in KS2 English writing	=1 IF	KS2_ENGWRI TL EV=ANY(N,2,3, B)	ELSE= 0
KS2_LEVBXENG (new for 2011)	Achieved level 3 or below in KS2 English	=1 IF	KS2_ENGLEV=A NY(N,2,3,B)	ELSE= 0
KS2_LEVBXENGT A (new for 2011)	Achieved Level 3 or below in KS2 English teacher assessment	=1 IF	KS2_ENGLEVT A =ANY(W,1,2,3)	ELSE= 0
KS2_LEVBXMAT (new for 2011)	Achieved level 3 or below in KS2 maths	=1 IF	KS2_MATLEV=A NY(N,2,3,B)	ELSE= 0
KS2_LEVBXMATT A (new for 2011)	Achieved level 3 or below in KS2 maths teacher assessment	=1 IF	KS2_MATLEV TA = ANY(W,1,2,3)	ELSE= 0
KS2_LEVBXSCITA (new for 2011)	Achieved level 3 or below in KS2 science teacher assessment	=1 IF	KS2_SCILEV TA= ANY(W,1,2,3)	ELSE= 0
KS2_LEVBXEMST A (new for 2011)	Achieved level 3 or below in KS2 English, maths and science teacher assessment	=1 IF	KS2_ENGLEVT A = ANY(W,1,2,3) AND KS2_MATLEV TA = ANY(W,1,2,3) AND KS2_SCILEV TA = ANY(W,1,2,3)	ELSE= 0
KS2_LEVADENGT A	Absent or Disapplied in English teacher assesment	=1 IF	KS2_ENGLEVT A = ANY(A,D)	ELSE= 0
KS2_LEVADMATT A	Absent or Disapplied in maths teacher assesment	=1 IF	KS2_MATLEV TA = ANY(A,D)	ELSE= 0
KS2_LEVADSCITA	Absent or Disapplied in science teacher assesment	=1 IF	KS2_SCILEV TA= ANY(A,D)	ELSE= 0
KS2_LEVATENG	Absent or unable to access the test in English	=1 IF	KS2_ENGLEV= ANY(A,T)	ELSE= 0
KS2_LEVATMAT	Absent or unable to access the test in maths	=1 IF	KS2_MATLEV= ANY(A,T)	ELSE= 0
KS2_TOTPTS	Total KS2 point score as used in	=KS2_ENGPOIN TS	N/A	N/A

	the value added calculations	+KS2_MATPOINTS		
KS2_APSDENS	Number of subjects in which the pupil contributes to the average point score at the school level	0 - 3	KS2_SCHRES=1 AND IF ANY (ENGLEV, MATLEV = ANY(B,N,2-6)) ADD 1	ELSE= 0
KS2_APSDENN	Number of subjects in which the pupil contributes to the average point score at the national level	0 - 3	KS2_NATRES=1 AND IF ANY (ENGLEV, MATLEV = ANY(B,N,2-6)) ADD 1	
KS2_APSDENNMTS	Number of subjects in which the pupil contributes to the average point score at the national level (maintained schools only)	0 - 3	KS2_NATMTDRES=1 AND IF ANY (ENGLEV, MATLEV = ANY(B,N,2-6)) ADD 1	
KS2_ENGLEVKS1	KS1 English level for progress measure	0 - 4		
KS2_ENGLEVKS2	KS2 English level for progress measure	0 - 5		
KS2_MATHLEVKS1	KS1 maths level for progress measure	0 - 4		
KS2_MATHLEVKS2	KS2 maths level for progress measure	0 - 5		
KS2_PROGENG12	Number of levels of progress in English between KS1 and KS2	-3 to 5		
KS2_PROGMATH12	Number of levels of progress in maths between KS1 and KS2	-3 to 5		
KS2_PROGENG12FLAG	Pupil flag for making 2 levels of progress in English between KS1 and KS2	= 1 (Yes) or 2 (No)		
KS2_PROGMATH12FLAG	Pupil flag for making 2 levels of progress in maths between KS1 and KS2	= 1 (Yes) or 2 (No)		
KS2_INKS12VA	Pupil included in value added (VA) model	=1 IF	Pupil has prior attainment matched to current attainment AND KS2_APSDENN>0 AND (KS2_ENGLEV OR	ELSE= 0

			KS2_MATLEV =ANY(B,N,2-5))	
KS2_KS1APS	KS1 prior attainment average point score (APS) (not finely graded), used as an input measure in the calculation of VA	=AVERAGE (KS2_KS1PREADPS,KS2_KS1WRITPS,KS2_KS1MATPS) IF	KS2_KS1READPS>0 OR KS2_KS1WRITPS>0 OR KS2_KS1MATPS>0	ELSE=NULL
		=3 IF	KS2_KS1READPS=0 AND KS2_KS1WRITPS=0 KS2_KS1MATPS=0 AND KS2_INKS12VA=1	
KS2_KS2APSG	KS2 current attainment average point score (using fine grading) used as the output measure in the calculation of VA	=AVERAGE (6*KS2_ENGFINE, 6*KS2_MATFINE)	N/A	N/A
KS2_KS1READPS	KS1 prior attainment reading score (not finely graded) for VA	= POINTS ALLOCATED TO KS1 READING GRADE IF	KS1 READING GRADE =ANY(W,1,2C,2B,2A,3,4)	ELSE=NULL
KS2_KS1WRITPS	KS1 prior attainment writing score (not finely graded) for VA	= POINTS ALLOCATED TO KS1 WRITING GRADE IF	KS1 WRITING GRADE =ANY(W,1,2C,2B,2A,3,4)	ELSE=NULL
KS2_KS1MATPS	KS1 prior attainment maths score (not finely graded) for VA	= POINTS ALLOCATED TO KS1 MATHS GRADE IF	KS1 MATHS GRADE =ANY(W,1,2C,2B,2A,3,4)	ELSE=NULL
KS2_KS1EXP	KS1 expected levels	1=low 2=medium 3=high 4=NA	N/A	N/A
KS2_EALGRP	English as an additional language	1=LANG1st=ENG or ENG 2=LANG1st=OTH or OTH 3=LANG1st=REF, NOT, Null, anything else	N/A	N/A
KS2_KS1APS2	KS1 APS squared	N/A	N/A	N/A
KS2_KS1APS3	KS1 APS cubed	N/A	N/A	N/A
KS2_KS2ENGFG	KS2 English point score (using fine grading)	N/A	N/A	N/A
KS2_KS2MATFG	KS2 Maths point score (using fine grading)	N/A	N/A	N/A

KS2_PAPSSQ	Prior attainment APS (squared)	=KS2_KS1APS* KS2_KS1APS	KS2_KS1APS <> NULL	ELSE= NULL
KS2_PE_DEV	Prior attainment KS1 reading point score deviation	= KS2_KS1READP S – KS2_KS1APS IF	KS2_KS1READP S <> NULL OR KS2_KS1APS <> NULL	ELSE= NULL
KS2_PM_DEV	Prior attainment KS1 maths point score deviation	=KS2_KS1MATP S- KS2_KS1APS IF	KS2_KS1MATPS <> NULL OR KS2_KS1APS <> NULL	ELSE= NULL
KS2_VERSION	Data version	= U (Unamended), A (Amended) or F (Final)	N/A	N/A

A2 Key Stage 1 prior attainment data

Variable	Description	Value	Conditions	Default value (if conditions not met)
KS1_SPEAKANDLISTEN	National Curriculum level awarded for speaking and listening (teacher assessment)	=ANY (1-4, A, D, W)	N/A	N/A
KS1_READING	National curriculum level awarded for reading (teacher assessment)	=ANY(W,1,2C,2B,2A,3,4,A,D)	N/A	N/A
KS1_WRITING	National curriculum level awarded for writing (teacher assessment)	=ANY(W,1,2C,2B,2A,3,4,A,D)	N/A	N/A
KS1_MATHS	National curriculum level awarded for maths (teacher assessment)	=ANY(A,D,U,W,1,2C,2B,2A,3,4)	N/A	N/A
KS1_SCIEXPINVEST	National Curriculum level awarded for scientific enquiry (teacher assessment)	=ANY(A,D,U,W,1,2,3,4)	N/A	N/A
KS1_SCILIFPROT	National Curriculum level awarded for life and living processes (teacher assessment)	=ANY(A,D,U,W,1,2,3,4)	N/A	N/A
KS1_SCIMATPRO P	National Curriculum level awarded for materials and their properties (teacher assessment)	=ANY(A,D,U,W,1,2,3,4)	N/A	N/A
KS1_SCIPHYSPRO C	National Curriculum level awarded for physical processes (teacher assessment)	=ANY(A,D,U,W,1,2,3,4)	N/A	N/A
KS1_SCIENCE	National Curriculum level awarded for overall science (teacher assessment)	=ANY(A,D,U,W,1,2,3,4)	N/A	N/A
KS1_VERSION	Data version	=U (unamended) Or F (final)	N/A	N/A

A3 Spring census data

Variable	Description	Value	Conditions	Default value (if conditions not met)
ETHNICITY_SPRxx	Pupil's ethnic code	See Annex E	N/A	N/A
ETHNICGROUPMINOR_SPRxx	Pupil's minor ethnic group based on ethnic code	See Annex E	N/A	N/A
ETHNICGROUPMAJOR_SPRxx	Pupil's major ethnic group based on ethnic code	See Annex E	N/A	N/A
FSMELIGIBLE_SPRxx	Pupil eligible for free school meals	=1 IF	TRUE	ELSE =0
EVERFSM_3_SPRxx	Flag to indicate if pupil has been recorded as eligible for free school meals in any Spring Census in the last 3 years	=1 IF	TRUE	ELSE =0
EVERFSM_6_SPRxx	Flag to indicate if pupil has been recorded as eligible for free school meals in any Spring Census in the last 6 years	=1 IF	TRUE	ELSE =0
EVERFSM_ALL_SPRxx	Flag to indicate if pupil has been recorded as eligible for free school meals in any Spring Census	=1 IF	TRUE	ELSE =0
CONNEXIONS_SPRxx	Do parents consent to pupil data being shared with Connexions?	= Yes (Permission has been given by the parent or guardian), = No (Parent or guardian has refused permission), = UNS (Unsought - school has not yet sent out Fair Processing Notices (Data cannot be shared with Connexions)) = SNR (Sought, No Reply - School has sent out Fair Processing Notices, but has	N/A	N/A

		received no reply from parent or guardian (Data can be shared with Connexions))		
LANGUAGE_SPRxx	Language code of pupils whose first language is other than English	See Annex F	N/A	N/A
LANGUAGEGROU PMINOR_SPRxx	Pupil's minor language group based on language code	See Annex F	N/A	N/A
LANGUAGEGROU PMAJOR_SPRxx	Pupil's major language group based on language code	=ANY(1,2,3)	N/A	N/A
GANDTINDICATO R_SPRxx	Indicates if the pupil is in the Gifted and Talented cohort for the school	=1 IF	TRUE	ELSE=0
MODEOFTRAVEL _SPRxx	Indicates the usual mode of travel used by the pupil for the greater part (in distance) of the journey to school	See codelist in annex H	N/A	N/A
ENROLSTATUS_S PRxx	Indicates enrolment status of pupil	=C (Current, single registration at this school), G (Guest, pupil not registered at this school but attending some lessons), M (Main current, dual registration), S (Current subsidiary, dual registration)	N/A	N/A
ENTRYDATE_SPR xx	Date of entry to current school	Date	N/A	N/A
LEAVINGDATE_S PRxx	Date pupil left current school	Date	N/A	N/A
SERVICECHILD_S PRxx	Indicates if a child has parent(s) who are Service personnel serving in regular military units of all forces and exercising parental care and responsibility	=1 IF	TRUE	ELSE=0
PARTTIME_SPRxx	Indicates if the pupil is part time or not	=1 IF	TRUE	ELSE=0

BOARDER_SPRxx	Indicates if the pupil is a boarder or not	=ANY(B,6,7,N)	N/A	N/A
NCYEARACTUAL_SPRxx	The year group in which the pupil is taught regardless of their chronological age	=ANY(N1,N2,R,1-14,X)	N/A	N/A
SENPROVISION_SPRxx	Provision types under the SEN Code of Practice	=ANY(N,A,P,S)	N/A	N/A
SENPROVISIONMAJOR_SPRxx	Pupil's major SEN provision group based on SEN provision code	=ANY(1,2,3,4)	N/A	N/A
PRIMARYSEN_SPRxx	Primary SEN type	See data tables	N/A	N/A
SECONDARYSEN_SPRxx	Secondary SEN type	See data tables	N/A	N/A
SENUNITINDICATOR_SPRxx	Indicates if a pupil with SEN in a mainstream school is a member of a SEN unit	=1 IF	TRUE	ELSE=0
RESOURCEDPROVISIONINDICATOR_SPRxx	Indicates if a pupil with SEN in a mainstream school is a member of a resourced provision	=1 IF	TRUE	ELSE=0
HOMELA_SPRxx	Home Local Authority 3-digit code derived from pupil's postcode		N/A	N/A
HOMELA_9CODE_SPRxx (new for 2011)	Home Local Authority 9-digit code derived from pupil's postcode		N/A	N/A
MOBILITYIND_SPRxx	Flag to indicate if pupil has different postcode from previous Spring Census	=ANY(0,1,2,3)	N/A	N/A
DISTCURRSCH_SPRxx	Distance from pupil postcode to current school		N/A	N/A
DISTNEARSCH_SPRxx	Distance from pupil postcode to nearest school		N/A	N/A
NEARSCHLAESTAB_SPRxx	LAESTAB number of nearest school to pupil postcode		N/A	N/A
LLOA_SPRxx	National Statistics Postcode Lookup Census Output Area derived from pupil's postcode.		N/A	N/A

LLSOA_SPRxx	National Statistics Postcode Lookup Lower Layer Super Output Area derived from pupil's postcode.		N/A	N/A
IDACISCORE_SPRxx	Income Deprivation Affecting Children Indices. IDACI Score derived from the pupil's postcode.	0-1	N/A	N/A
IDACIRANK_SPRx	Income Deprivation Affecting Children Indices. IDACI Rank based on the score derived from the pupil's postcode		N/A	N/A

N.B. EthnicGroupMinor and LanguageGroupMinor are exactly the same fields as the previous EthnicGroup and LanguageGroup fields respectively but with updated names following the introduction of EthnicGroupMajor and LanguageGroupMajor.

Annex B: School inclusion rules

Description	National results	LA Level results	School level results (in PTs)
Institution is unclassified	✓		
Independent school with KS2 pupils	✓		
Hospital school or PRU with KS2 pupils	✓		
Maintained school with KS2 pupils and primary age range	✓	✓	✓
Maintained school with KS2 pupils but outside primary age range with eligible pupils	✓	✓	
Maintained school with KS2 pupils, closed or pending closure	✓	✓	
Maintained school with KS2 pupils, closed as a result of amalgamation	✓	✓	
Maintained school opened after census date with eligible pupils (but no 10 year olds prior to mailing)	✓	✓	✓
Maintained school opened after date of tests			(✓)
Maintained school established for Y6 but no eligible pupils			(✓)
Maintained school with no 10 year olds but with eligible pupils (e.g. eligible pupils joined after date of census)	✓	✓	✓

(✓) Background information on school only

Annex C: Calculating point scores

Converting KS2 levels to point scores:

Level	Point score
Missing	Set as NULL
A (absent)	Set as NULL
D (disapplied)	Set as NULL
IN (invalid)	Set as NULL
B (working towards level of test)	15
N (not awarded a test level)	15
2	15
3	21
4	27
5	33
6	39

Annex D: Calculating fine point scores

The following methodology is used to calculate fine point scores for each pupil from the mark they achieved in the key stage test.

Criteria		KS level	Fine grade
Level is N		N	2.5
Pupil has a main test mark but outside the range of the paper		B	2.5
		2	See rule (2.1) below
		3	3.5
		4	4.5
		5	5.5
Pupil has a main test mark within the range of the paper but outside range for level assigned	Level is 2	2	See rule (2.2) below
	Level is higher than mark	3	3.0
		4	4.0
		5	5.0
Level is lower than mark	3-5	$\frac{\text{level max} - \text{level min}}{\text{level max} - \text{level min} + 1} + \text{level}$	
Pupil has a main test mark consistent with the level assigned		2	See rule (2.3) below
		3-5	$\frac{\text{mark} - \text{level min}}{\text{level max} - \text{level min} + 1} + \text{level}$
Level is not B, N, 2-6			NULL

Round the fine grade to 2 d.p. then multiply by 6 and round to 2 d.p. to calculate the fine grade point score.

(2.1) Assign these pupils the middle mark of the level 2 range and then apply the algorithm in rule (2.3).

(2.2)

- i) If the mark is lower than the minimum mark for the level 2 range then assign the minimum mark and apply the algorithm in (2.3).
- ii) If the mark is higher than the maximum mark for the level 2 range then assign the maximum mark and apply the algorithm in (2.3).

(2.3) Use algorithm

$$\text{Fine grade} = 3.0 - \frac{\text{min level 3 mark} - \text{mark}}{\text{max level 3 mark} - \text{min level 3 mark} + 1}$$

Mark ranges for Key Stage 2 levels, 2011

KS2 level	English	Maths
N	0-19	0-13
2	20-22	14-16
3	23-40	17-44
4	41-69	45-76
5	70-100	77-100

Annex E: Ethnicity codes

Code	Ethnicity	Major grouping	Minor sub grouping
AAFR	African Asian	Asian	Any other Asian background
ABAN	Bangladeshi	Asian	Bangladeshi
AIND	Indian	Asian	Indian
AKAO	Kashmiri Other	Asian	Any other Asian background
AKPA	Kashmiri Pakistani	Asian	Pakistani
AMPK	Mirpuri Pakistani	Asian	Pakistani
ANEP	Nepali	Asian	Any other Asian background
AOPK	Other Pakistani	Asian	Pakistani
AOTA	Other Asian	Asian	Any other Asian background
AOTH	Any Other Asian background	Asian	Any other Asian background
APKN	Pakistani	Asian	Pakistani
ASLT	Sri Lankan Tamil	Asian	Any other Asian background
ASNL	Sri Lankan Sinhalese	Asian	Any other Asian background
ASRO	Sri Lankan Other	Asian	Any other Asian background
BAFR	African	Black	Black African
BANN	Angolan	Black	Black African
BAOF	Other Black African	Black	Black African
BCON	Congolese	Black	Black African
BCRB	Caribbean	Black	Caribbean
BEUR	Black European	Black	Any other black background
BGHA	Ghanaian	Black	Black African
BNAM	Black North American	Black	Any other black background
BNGN	Nigerian	Black	Black African
BOTB	Other Black	Black	Any other black background
BOTH	Any Other Black Background	Black	Any other black background
BSLN	Sierra Leonian	Black	Black African
BSOM	Somali	Black	Black African
BSUD	Sudanese	Black	Black African
CHKC	Hong Kong Chinese	Chinese	Chinese
CHNE	Chinese	Chinese	Chinese
CMAL	Malaysian Chinese	Chinese	Chinese
COCH	Other Chinese	Chinese	Chinese
CSNG	Singaporean Chinese	Chinese	Chinese
CTWN	Taiwanese	Chinese	Chinese
MABL	Asian and Black	Mixed	Any other mixed background
MACH	Asian and Chinese	Mixed	Any other mixed background
MAOE	Asian and any other ethnic group	Mixed	Any other mixed background
MBCH	Black and Chinese	Mixed	Any other mixed background
MBOE	Black and any other ethnic group	Mixed	Any other mixed background
MCOE	Chinese and any other ethnic group	Mixed	Any other mixed background
MOTH	Any other mixed background	Mixed	Any other mixed background
MOTM	Other mixed background	Mixed	Any other mixed background
MWAI	White and Indian	Mixed	White and Asian
MWAO	White and any other	Mixed	White and Asian

	Asian background		
MWAP	White and Pakistani	Mixed	White and Asian
MWAS	White and Asian	Mixed	White and Asian
MWBA	White and Black African	Mixed	White and Black African
MWBC	White and Black Caribbean	Mixed	White and Black Caribbean
MWCH	White and Chinese	Mixed	Any other mixed background
MWOE	White and any other ethnic group	Mixed	Any other mixed background
NOBT	Information not obtained (default)	Unclassified	Unclassified
OAFG	Afghanistani	Any other ethnic group	Any other ethnic group
OARA	Arab	Any other ethnic group	Any other ethnic group
OEGY	Egyptian	Any other ethnic group	Any other ethnic group
OFIL	Filipino	Any other ethnic group	Any other ethnic group
OIRN	Iranian	Any other ethnic group	Any other ethnic group
OIRQ	Iraqi	Any other ethnic group	Any other ethnic group
OJPN	Japanese	Any other ethnic group	Any other ethnic group
OKOR	Korean	Any other ethnic group	Any other ethnic group
OKRD	Kurdish	Any other ethnic group	Any other ethnic group
OLAM	Latin American	Any other ethnic group	Any other ethnic group
OLEB	Lebanese	Any other ethnic group	Any other ethnic group
OLIB	Libyan	Any other ethnic group	Any other ethnic group
OMAL	Malay	Any other ethnic group	Any other ethnic group
OMRC	Moroccan	Any other ethnic group	Any other ethnic group
OOEG	Other ethnic group	Any other ethnic group	Any other ethnic group
OOTH	Any other ethnic group	Any other ethnic group	Any other ethnic group
OPOL	Polynesian	Any other ethnic group	Any other ethnic group
OTHA	Thai	Any other ethnic group	Any other ethnic group
OVIE	Vietnamese	Any other ethnic group	Any other ethnic group
OYEM	Yemeni	Any other ethnic group	Any other ethnic group
REFU	Refused	Unclassified	Unclassified
WALB	Albanian	White	Any other white background
WBOS	Bosnian-Herzegovinian	White	Any other white background
WBRI	British	White	White British
WCOR	Cornish	White	White British
WCRO	Croatian	White	Any other white background
WEEU	White Eastern European	White	Any other white background
WENG	English	White	White British
WEUR	White European	White	Any other white background
WGRC	Greek Cypriot	White	Any other white background
WGRE	Greek/Greek Cypriot	White	Any other white background
WGRK	Greek	White	Any other white background
WIRI	Irish	White	White Irish
WIRT	Traveller of Irish heritage	White	Traveller of Irish heritage
WITA	Italian	White	Any other white background
WKOS	Kosovan	White	Any other white background
WOTH	Any other White background	White	Any other white background
WOTW	Other White	White	Any other white background
WOWB	Other White British	White	White British

WPOR	Portuguese	White	Any other white background
WROM	Gypsy/Roma	White	Gypsy/Roma
WSCO	Scottish	White	White British
WSER	Serbian	White	Any other white background
WTUC	Turkish Cypriot	White	Any other white background
WTUK	Turkish	White	Any other white background
WTUR	Turkish/Turkish Cypriot	White	Any other white background
WWEL	Welsh	White	White British
WWEU	White Western European	White	Any other white background

Annex F: Language groups

LANGUAGEGROUPMINOR_SPRxx	Description
ENG	English
ENB	Not known but believed to be English
OTH	Other than English
OTB	Not known but believed to be other than English
REF	Refused
NOT	Information not obtained
INV	Invalid code
MIS	Missing value
PEN	Classification pending
N/A	Not applicable

LANGUAGEGROUPMAJOR_SPRxx	Description
1_ENG	English (includes not known but believed to be English)
2_OTH	Other than English (includes not known but believed to be other than English)
3_UNCL	Unclassified

A description of individual language codes can be found in the data tables.

Annex G: Local Authority Areas

LA	LA (9-digit)	Region	LA name
201	E09000001	London	City of London
202	E09000007	London	Camden
203	E09000011	London	Greenwich
204	E09000012	London	Hackney
205	E09000013	London	Hammersmith and Fulham
206	E09000019	London	Islington
207	E09000020	London	Kensington and Chelsea
208	E09000022	London	Lambeth
209	E09000023	London	Lewisham
210	E09000028	London	Southwark
211	E09000030	London	Tower Hamlets
212	E09000032	London	Wandsworth
213	E09000033	London	Westminster
301	E09000002	London	Barking and Dagenham
302	E09000003	London	Barnet
303	E09000004	London	Bexley
304	E09000005	London	Brent
305	E09000006	London	Bromley
306	E09000008	London	Croydon
307	E09000009	London	Ealing
308	E09000010	London	Enfield
309	E09000014	London	Haringey
310	E09000015	London	Harrow
311	E09000016	London	Havering
312	E09000017	London	Hillingdon
313	E09000018	London	Hounslow
314	E09000021	London	Kingston upon Thames
315	E09000024	London	Merton
316	E09000025	London	Newham
317	E09000026	London	Redbridge
318	E09000027	London	Richmond upon Thames
319	E09000029	London	Sutton
320	E09000031	London	Waltham Forest
330	E08000025	West Midlands	Birmingham
331	E08000026	West Midlands	Coventry
332	E08000027	West Midlands	Dudley
333	E08000028	West Midlands	Sandwell
334	E08000029	West Midlands	Solihull
335	E08000030	West Midlands	Walsall
336	E08000031	West Midlands	Wolverhampton
340	E08000011	North West	Knowsley
341	E08000012	North West	Liverpool
342	E08000013	North West	St. Helens
343	E08000014	North West	Sefton
344	E08000015	North West	Wirral
350	E08000001	North West	Bolton
351	E08000002	North West	Bury
352	E08000003	North West	Manchester
353	E08000004	North West	Oldham
354	E08000005	North West	Rochdale
355	E08000006	North West	Salford
356	E08000007	North West	Stockport
357	E08000008	North West	Tameside
358	E08000009	North West	Trafford

359	E08000010	North West	Wigan
370	E08000016	Yorkshire and the Humber	Barnsley
371	E08000017	Yorkshire and the Humber	Doncaster
372	E08000018	Yorkshire and the Humber	Rotherham
373	E08000019	Yorkshire and the Humber	Sheffield
380	E08000032	Yorkshire and the Humber	Bradford
381	E08000033	Yorkshire and the Humber	Calderdale
382	E08000034	Yorkshire and the Humber	Kirklees
383	E08000035	Yorkshire and the Humber	Leeds
384	E08000036	Yorkshire and the Humber	Wakefield
390	E08000020	North East	Gateshead
391	E08000021	North East	Newcastle upon Tyne
392	E08000022	North East	North Tyneside
393	E08000023	North East	South Tyneside
394	E08000024	North East	Sunderland
420	E06000053	South West	Isles of Scilly
800	E06000022	South West	Bath and North East Somerset
801	E06000023	South West	Bristol, City of
802	E06000024	South West	North Somerset
803	E06000025	South West	South Gloucestershire
805	E06000001	North East	Hartlepool
806	E06000002	North East	Middlesbrough
807	E06000003	North East	Redcar and Cleveland
808	E06000004	North East	Stockton-on-Tees
810	E06000010	Yorkshire and the Humber	Kingston Upon Hull, City of
811	E06000011	Yorkshire and the Humber	East Riding of Yorkshire
812	E06000012	Yorkshire and the Humber	North East Lincolnshire
813	E06000013	Yorkshire and the Humber	North Lincolnshire
815	E10000023	Yorkshire and the Humber	North Yorkshire
816	E06000014	Yorkshire and the Humber	York
821	E06000032	East of England	Luton
822	E06000055	East of England	Bedford
823	E06000056	East of England	Central Bedfordshire
825	E10000002	South East	Buckinghamshire
826	E06000042	South East	Milton Keynes
830	E10000007	East Midlands	Derbyshire
831	E06000015	East Midlands	Derby
835	E10000009	South West	Dorset
836	E06000029	South West	Poole
837	E06000028	South West	Bournemouth
840	E06000047	North East	Durham
841	E06000005	North East	Darlington
845	E10000011	South East	East Sussex
846	E06000043	South East	Brighton and Hove
850	E10000014	South East	Hampshire
851	E06000044	South East	Portsmouth
852	E06000045	South East	Southampton
855	E10000018	East Midlands	Leicestershire
856	E06000016	East Midlands	Leicester
857	E06000017	East Midlands	Rutland
860	E10000028	West Midlands	Staffordshire
861	E06000021	West Midlands	Stoke-on-Trent
865	E06000054	South West	Wiltshire
866	E06000030	South West	Swindon
867	E06000036	South East	Bracknell Forest
868	E06000040	South East	Windsor and Maidenhead
869	E06000037	South East	West Berkshire
870	E06000038	South East	Reading

871	E06000039	South East	Slough
872	E06000041	South East	Wokingham
873	E10000003	East of England	Cambridgeshire
874	E06000031	East of England	Peterborough
876	E06000006	North West	Halton
877	E06000007	North West	Warrington
878	E10000008	South West	Devon
879	E06000026	South West	Plymouth
880	E06000027	South West	Torbay
881	E10000012	East of England	Essex
882	E06000033	East of England	Southend-on-Sea
883	E06000034	East of England	Thurrock
884	E06000019	West Midlands	Herefordshire
885	E10000034	West Midlands	Worcestershire
886	E10000016	South East	Kent
887	E06000035	South East	Medway
888	E10000017	North West	Lancashire
889	E06000008	North West	Blackburn with Darwen
890	E06000009	North West	Blackpool
891	E10000024	East Midlands	Nottinghamshire
892	E06000018	East Midlands	Nottingham
893	E06000051	West Midlands	Shropshire
894	E06000020	West Midlands	Telford and Wrekin
895	E06000049	North West	Cheshire East
896	E06000050	North West	Cheshire West and Chester
908	E06000052	South West	Cornwall
909	E10000006	North West	Cumbria
916	E10000013	South West	Gloucestershire
919	E10000015	East of England	Hertfordshire
921	E06000046	South East	Isle of Wight
925	E10000019	East Midlands	Lincolnshire
926	E10000020	East of England	Norfolk
928	E10000021	East Midlands	Northamptonshire
929	E06000048	North East	Northumberland
931	E10000025	South East	Oxfordshire
933	E10000027	South West	Somerset
935	E10000029	East of England	Suffolk
936	E10000030	South East	Surrey
937	E10000031	West Midlands	Warwickshire
938	E10000032	South East	West Sussex

Annex H: Mode of travel code list

Code	Description
WLK	Walk
CYC	Cycle
CAR	Car/van
CRS	Car share (with a pupil from another household)
PSB	Public service bus
DSB	Dedicated school bus
BNK	Bus (type not known)
TXI	Taxi
TRN	Train
LUL	London Underground
MTL	Metro/tram/light rail
BDR	Boarder- not applicable
OTH	Other