

Outcomes for Children in Need: 31 March 2019

Methodology document

March 2020

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Data sources

Children in need census

The children in need (CIN) census collects information at child level on:

- any child referred to children's social care services within the year; and
- any cases open at the beginning of the year for whom local authorities were providing a service.

This census is a statutory annual collection of data from each local authority in England. The data collected is used to calculate the number of referrals and assessments carried out by children's social care services, along with the number of children assessed to be in need and the number that were the subject of a child protection plan. This information is published by the department at local, regional and national level.

National pupil database

The national pupil database (NPD) is a longitudinal database, linking pupil/student characteristics to school and college learning aims and achievement information for all children in state-funded schools in England. Further information on the NPD, including how to request NPD data extracts is available on GOV.UK.

The CIN census has been matched to the NPD to determine the characteristics, attainment, absence and exclusions of children in need. This is the eighth year the CIN census has been matched to the NPD. Prior to 2012, analysis was shared with local authorities but not published because of data quality concerns. Improved data quality since then means the DfE are able to publish annual statistics.

Looked after children have been removed from the analysis to align with measures included in the <u>children's safeguarding performance information framework</u>. Further details on the removal of looked after children can be found in the <u>Removing looked after children</u> section.

The analysis contained in the additional outcomes tables is based on the matched data and includes local authority and national level information on:

- matching rates between the CIN census and the NPD;
- prevalence of special educational needs (SEN) and free school meals (FSM);
- attainment at key stage 1 (KS1), key stage 2 (KS2), key stage 4 (KS4) and progression between these key stages;
- absence and exclusion rates;

- absence rates for children in need who were also the subject of a child protection plan; and
- destinations of KS4 children in need pupils.

Matching process

Children in need population

There were 399,510 children in need on the child-level CIN census file with open cases at 31 March 2019.

Removing looked after children

Indicators N1, N2 and N3 of the children's safeguarding performance information framework cover the educational attainment, absence and exclusions of children in need. Comparable data is published for looked after children; therefore, they are excluded from this analysis to focus on other children in need.

The CIN census was matched to the children looked after (CLA) return (also known as SSDA903) using the local authority child ID. This is an ID assigned by the local authority for each child that is unique within that local authority and it should be retained from year to year. Local authorities use the same child IDs for the CIN and CLA returns which allows these datasets to be linked. Children who were looked after at any point during the year were removed from the children in need dataset; however, the following groups of children were retained:

- children who received only respite care during the year (these are not included in the looked after children education statistics); and
- looked after children who were also the subject of a child protection plan.

The removal of looked after children reduced the number of children in need at 31 March 2019 from 399,510 to 318,420.

Matching CIN to NPD

The main matching key is the child's unique pupil number (UPN). A UPN is automatically allocated to each child in maintained schools in England and Wales. It is an identifier only for use in an educational context during a child's school career. Local authorities are required to return UPNs as part of the CIN census. Further details of what is collected in the children in need census can be found here.

A record from the CIN census is matched into the NPD if there is enough identifiable or characteristic information (mainly UPN, but also gender and date of birth) available in that record which either:

a) identifies the child as already being in the NPD via its appearance in other data sources (which includes the school census and the early years census and

- previous CIN-NPD datasets) and from which the existing pupil ID can then be attributed to the new record from the 2018 to 2019 CIN census, or
- b) involves creating a new pupil ID for the child when the child's characteristics cannot be accurately determined as currently existing in the NPD.

Hence, even though a record from the CIN census has been matched into the NPD (i.e., given a pupil ID), it does not necessarily mean that it can be linked to other data in the NPD if there is no other information attributed to that pupil ID from other data sources. This is particularly relevant for the CIN census as a new child can appear, and therefore be matched into the NPD for the first time, before they start school if enough characteristic information is available in their CIN record to create a new pupil ID.

Duplicate records in the NPD extract

There were duplicate records in the NPD, where the same child was listed as taking key stage 4 examinations in different schools. In order to analyse the attainment of children in need at key stage 4, only one record can be used. Where duplicate records occur in the NPD, the records are sorted on a child's key stage 4 attainment scores, with the highest scoring record being retained.

The children in need dataset, which had looked after children removed, was then matched to the NPD extract. This allowed the characteristics, attainment and absence of children in need to be analysed.

Data quality

The CIN census was matched to the CLA return to remove looked after children from the children in need cohort.

Overall, 86% of school age children in need were matched to the NPD, with 80% of local authorities having a match rate of 80% or better. There was considerable variation in matching rates at local authority level, ranging from 29% to 99% (see table L1).

Analysis

The analysis covers the number of school age (5 to 16 inclusive) children in need at 31 March 2019, with the exception of exclusions and destinations data. Exclusions cover the number of school age children in need at 1 April 2018. This is because exclusions data runs to a much later timetable than other data held in the NPD, due to the exclusions review process. We therefore matched all children aged 5 to 16 years who were in need at 1 April 2018, to 2017 to 2018 exclusions data. Destinations data provides information on 2017-18 destinations for children in need who completed key stage 4 in 2016-17.

In the national tables and local authority tables, national and regional figures have been rounded to the nearest 10 and local authority figures are shown to the nearest integer. Percentages have been derived from unrounded numerators and denominators. Rounding conventions for percentages are consistent with those used in the individual national statistics publications. For example: key stage 2 percentages are rounded to the nearest whole number, key stage 4 percentages are rounded to 1 decimal place and exclusions percentages are rounded to 2 decimal places. Values between 1 and 5 inclusive have been suppressed and replaced with 'c'. In addition, secondary suppression may have been applied to protect confidentiality, and in attainment tables figures of 0 children achieving the expected standard are also suppressed.

The following table provides definitions for the numerators and denominators used to calculate the percentages in the tables.

| Numerator(s) | Denominator | Percentage |
|---|-----------------------------|-----------------------------|
| Table L1: Matching rates | | |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need in the CIN | children in need matched to |
| March 2019 in the | census at 31 March 2019 | the NPD |
| matched CIN-NPD dataset | | |
| Table L2: Special educational needs (SEN) | | |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need at 31 | children in need at 31 |
| March 2019 in the | March 2019 in the | March 2019 in the matched |
| matched CIN-NPD dataset | matched CIN-NPD dataset | CIN-NPD dataset with: |
| with: | with: | - no identified SEN |
| - no identified SEN | - no identified SEN | - SEN support |
| - SEN support | - SEN support | - SEN with a statement or |
| - SEN with a statement or | - SEN with a statement or | EHC plan |
| EHC plan | EHC plan | |
| | | |
| Table L3: Free school meals (FSM) eligibility | | |

| Numerator(s) | Denominator | Percentage |
|--------------------------------------|-------------------------|----------------------------|
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need at 31 | children in need at 31 |
| March 2019 in the | March 2019 in the | March 2019 who were |
| matched CIN-NPD dataset | matched CIN-NPD dataset | eligible for FSM |
| and eligible for FSM | with FSM information | |
| Table L4: Key stage 1 (KS | 1) attainment | l |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need at 31 | children in need at 31 |
| March 2019 in the | March 2019 in the | March 2019 in the matched |
| matched CIN-NPD dataset | matched CIN-NPD dataset | CIN-NPD dataset achieving |
| achieving the required level in KS1: | with KS1 information: | the required level in KS1: |
| | - English Reading | - English Reading |
| - English Reading | - English Writing | - English Writing |
| - English Writing | - Mathematics | - Mathematics |
| - Mathematics | - Science | - Science |
| - Science | Colonico | Goldfide |
| Ocionico | | |
| Table L5: Key stage 2 (KS | 2) attainment | |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need at 31 | children in need at 31 |
| March 2019 in the | March 2019 in the | March 2019 in the matched |
| matched CIN-NPD dataset | matched CIN-NPD dataset | CIN-NPD dataset achieving |
| achieving the required | with KS2 information: | the required level in KS2: |
| level in KS2: | | |
| | | |
| - Mathematics (test) | - Mathematics (test) | - Mathematics (test) |
| - Reading (test) | - Reading (test) | - Reading (test) |
| - Writing (teacher | - Writing (teacher | - Writing (teacher |
| assessment) | assessment) | assessment) |
| - Grammar, punctuation | - Grammar, punctuation | - Grammar, punctuation and |
| and spelling (test) | and spelling (test) | spelling (test) |
| - Reading, writing and | - Reading, writing and | - Reading, writing and |
| mathematics | mathematics | mathematics |
| manomanos | manomanos | mationatios |
| | | |

Table L6: Key stage 2 (KS2) average progress scores

The KS2 progress measures aim to capture the progress that pupils make from the end of key stage 1 to the end of primary school. They are a type of value-added measure, which means that pupils' results are compared to the actual achievements of other pupils nationally with similar prior attainment.

| Numerator(s) | Denominator | Percentage |
|---|---------------------------|---|
| We publish: | | |
| • | | |
| Reading progress | | |
| - Number of pupils included | d in progress calculation | |
| J , J | Average progress score | |
| - Lower confidence interva | | |
| - Upper confidence interva | | |
| Writing progress | | |
| - Number of pupils included | d in progress calculation | |
| - Average progress score | | |
| - Lower confidence interva | | |
| - Upper confidence interval | | |
| Mathematics progress | | |
| - Number of pupils included in progress calculation | | |
| - Average progress score | | |
| - Lower confidence interval | | |
| - Upper confidence interval | | |
| | | |
| Table L7: Key stage 4 (KS4) attainment | | |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 31 | children in need at 31 | children in need at 31 |
| March 2019 in the | March 2019 in the | March 2019 in the matched |
| matched CIN-NPD | matched CIN-NPD dataset | CIN-NPD dataset: |
| dataset: | with KS4 information | |
| | | - Achieving grade 5 or |
| - Achieving grade 5 or | | above in English and Maths |
| above in English and | | GCSEs |
| Maths GCSEs - Achieving grade 4 or | | - Achieving grade 4 or above in English and Maths |
| | | above iii Liigiisii aliu ivialiis |
| • • | | GCSEs |
| above in English and Maths GCSEs | | GCSEs - Entering English |

Baccalaureate

or above

- Achieving English

Baccalaureate at grade 5

- Achieving English

above

Baccalaureate at grade 5 or

| Numerator(s) | Denominator | Percentage |
|--------------------------|-------------|-------------------------------|
| - Achieving English | | -Achieving English |
| Baccalaureate at grade 4 | | Baccalaureate at grade 4 or |
| or above | | above |
| | | - Average attainment 8 |
| | | score* |
| | | |
| | | * Attainment 8 measures |
| | | the achievement of a pupil |
| | | across 8 qualifications |
| | | including mathematics |
| | | (double weighted) and |
| | | English (double weighted), |
| | | 3 further qualifications that |
| | | count in the English |
| | | Baccalaureate (EBacc) |
| | | measure and 3 further |
| | | qualifications that can be |
| | | GCSE qualifications |
| | | (including EBacc subjects) |
| | | or technical awards from |
| | | the DfE approved list. The |
| | | average attainment 8 score |
| | | per pupil is presented. |

Table L8: Progress between key stage 2 and key stage 4

Progress 8 measure

A Progress 8 score is calculated for each pupil by comparing their achievement – their Attainment 8 score – with the average Attainment 8 score of all pupils nationally who had a similar starting point (or 'prior attainment'), calculated using assessment results from the end of primary school. The greater the Progress 8 score, the greater the progress made by the pupil compared to the average of pupils with similar prior attainment.

We publish:

- Number of eligible Children in Need at the end of Key Stage
- Number of pupils included in progress 8 calculation
- Average progress 8 score
- Lower confidence interval
- Upper confidence interval

| Numerator(s) | Denominator | Percentage | |
|--|---|----------------------------|--|
| Table L9: Absence from se | Table L9: Absence from school in the autumn, spring and summer term 2018/19 | | |
| unauthorised / authorised / overall absence levels | | | |
| Number of sessions of: | Total number of sessions | Absence rates for school | |
| - unauthorised absence | for school age children in | age children in need at 31 | |
| - authorised absence | need at 31 March 2019 in | March 2019 for: | |
| - overall absence | the matched CIN-NPD | - unauthorised absence | |
| for school age children in | dataset, with absence | - authorised absence | |
| need at 31 March 2019 in | information in a primary, | - overall absence | |
| the matched CIN-NPD | secondary or special | | |
| dataset, during the | school in January 2019, | | |
| autumn, spring and | during the autumn, spring | | |
| summer terms of 2018/19 | and summer terms of | | |
| | 2018/19 | | |
| Persistent absence level ¹ | | | |
| Number of school age | Number of school age | Percentage of school age | |
| children in need at 31 | children in need at 31 | children in need at 31 | |
| March 2019 in the | March 2019 in the | March 2019 in the matched | |
| matched CIN-NPD dataset | matched CIN-NPD dataset | CIN-NPD dataset who were | |
| who were persistent | with absence information | persistent absentees | |
| absentees | in a primary, secondary or | | |
| | special school in January | | |
| | 2019 | | |

¹ Persistent absentees are defined as having an overall absence rate of around 10 per cent or more of all the sessions that individual was expected to attend.

| Numerator(s) | Denominator | Percentage |
|--|-------------------------------|-------------------------------|
| Table L10: Exclusions in 2017/18 | | |
| Number of school age | Number of school age | Percentage of school age |
| children in need at 1 April | children in need at 1 April | children in need at 1 April |
| 2018 in the matched CIN- | 2018 in the matched CIN- | 2018 in the matched CIN- |
| NPD dataset by: | NPD dataset, with | NPD dataset with: |
| - number with at least one | exclusions information in a | - at least one fixed period |
| fixed period exclusion | primary, secondary or | exclusion |
| - number with a | special school in January | - permanent exclusions |
| permanent exclusion | 2018 | |
| Table L11: Child protectio | n plans | |
| unauthorised / authorised | / overall absence levels | |
| Number of sessions of: | Total number of sessions | Absence rates for school |
| - unauthorised absence | for school age children in | age children in need at 31 |
| - authorised absence | need at 31 March 2019 | March 2019 who were the |
| - overall absence | who were also the subject | subject of a child protection |
| for school age children in | of a child protection plan in | plan in 2018-19 for: |
| need at 31 March 2019 | 2018-19 in the matched | - unauthorised absence |
| who were also the subject | CIN-NPD dataset, with | - authorised absence |
| of a child protection plan in | absence information in a | - overall absence |
| 2018-19 in the matched | primary, secondary or | |
| CIN-NPD dataset, during | special school in January | |
| the autumn, spring and | 2019, during the autumn | |
| summer terms of 2018/19 | and spring terms of | |
| | 2018/19 | |
| Persistent absence levels ² | | |
| Number of school age | Number of school age | Percentage of children in |
| children in need at 31 | children in need at 31 | need at 31 March 2019 in |
| March 2019 in the | March 2019 in the | the matched CIN-NPD |
| matched CIN-NPD dataset | matched CIN-NPD dataset | dataset who were the |
| who were also the subject | who were also the subject | subject of a child protection |
| of a child protection plan in | of a child protection plan in | plan, who were persistent |
| 2018-19, who were | 2018-19, with absence | absentees |
| persistent absentees | information in a primary, | |
| | secondary or special | |
| | school in January 2019 | |

 2 Persistent absentees are defined as having an overall absence rate of around 10 per cent or more of all the sessions that individual was expected to attend.

Changes to the time series

Up until the publication of 2013-14 data, children in need outcomes data was published in February; with attainment figures based on provisional key stage 2 and key stage 4 data, and absence figures based on 2-term absence rates. From 2014-15 onwards, the data has been published in March, in order to align the versions of attainment and absence data with those used in the <u>outcomes for children looked after</u> statistics. As a result, data from 2014-15 onwards is based on revised key stage 2 and 4 attainment data, and 3-term absence rates.

Local authority key stage 2 attainment data has been updated to align with the main key stage 2 statistical publication. The national level data remains the same as in previous years and excludes pupils with missing or lost test results and pupils where results are suppressed pending the outcome of a maladministration investigation. The local authority level data excludes pupils with lost results but includes those with missing results or pending maladministration. It also excludes children that have recently arrived from overseas. As a result, national-level figures may differ slightly from England figures in the local authority data tables.

Local authority key stage 4 attainment data is aligned with the main key stage 4 statistical publication and therefore excludes children recently arrived from overseas. As a result, figures in the national-level tables may not match England figures in the local authority tables.

For the first time this year we have included information on the destinations of children in need, after they have completed key stage 4. This data is provided at national level.

Related statistics published by the Department for Education

Looked after children

Outcomes for children looked after statistics include information on educational attainment and progress, special educational needs (SEN) status, and absence and exclusions from school for children who had been looked after continuously for at least 12 months. Data is published at national, regional and local authority level.

All children

<u>Special educational needs statistics</u> report on children with Special Education Needs provision.

<u>Schools, pupils and their characteristics statistics</u> report on the number and proportion of children eligible for free school meals.

Key stage 1 statistics report on national curriculum assessments at key stage 1 and phonics screening check results.

<u>Key stage 2 statistics</u> report on national curriculum assessments and review outcomes at key stage 2, including measures of progress between key stages 1 and 2.

Key stage 4 statistics report on key stage 4 results, including GCSEs.

<u>Pupil absence statistics</u> report on overall authorised and unauthorised pupil absences by school type, including persistent absentees and pupil characteristics.

Exclusions statistics report on permanent and fixed period exclusions from schools.



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