

## Appendix B: Codebook of Variable Specifications

### I. Analytic Groups

The following groups are mutually exclusive, such that group membership is based on eligibility for the first applicable category in the list, even where subsequent categories also apply.

#### Group 1: Care Leavers

Those meeting the statutory definition of a care leaver and therefore eligible for ongoing support from their local authority.

##### Variables used:

Ep\_start [CLA]

Ep\_end [CLA]

##### Transformations:

*Start date from age 14 to count days in care:*

```
compute CLA14b = 0
```

```
if (Ep_start < date.dmy(01,09,2012)) and (Ep_end > date.dmy(01,09,2012)) CLA14b = 1
```

```
compute Ep_start14 = Ep_start
```

```
if CLA14b = 1 Ep_start14 = date.dmy(01,09,2012)
```

*In care at 14:*

```
compute CLA14 = 0
```

```
if (range(Ep_start, date, dmy(01,09,2012), date.dmy(31,08,2013))) or
```

```
(Ep_start < date.dmy(01,09,2012)) and (Ep_end > date.dmy(30,11,2012)) CLA14 = 1
```

*Care length of each episode:*

```
compute CLA_LOC14 = datediff(Ep_end, Ep_start14, 'Days')
```

*Episodes longer than 17 days for those in care age 14:*

```
compute CLA14_17days = CLA14
```

```
if CLA_LOC14 < 17 CLA14_17days = 0
```

*In care at 16+:*

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compute CLA16 = 0

if (Ep\_start >= date.dmy(01,09,2014)) or  
(Ep\_start < date.dmy(01,09,2014)) and (Ep\_end > date.dmy(01,09,2014)) CLA16 = 1

*Eligible length of care episode:*

compute CLA\_eligibleLOC = 0

if CLA14\_17days = 1 or CLA16 = 1 CLA\_eligibleLOC = CLA\_LOC14

*In care at some point age 14 and 16 for at least 13 weeks:*

compute CLA\_Eligibility = 0

if CLA14\_17days = 1 and CLA16 = 1 and CLA\_eligibleLOC > 91 CLA\_Eligibility = 1

recode CLA\_Eligibility (SYSMIS = 0) (else = copy) into CLA\_CL

Analytic variable:

CLA\_CL

1 = Yes, care leaver

0 = No, not care leaver

## Group 2: Ever in Care

Those previously in care at any point after the age of 5 (as data are only available from 2003/04 onwards), but not meeting the statutory definition of a care leaver.

Variables used:

DATE EPI COMM (Date care episode commenced) [CLA]

CLA\_CL Care leaver [TASO (Group 1) from CLA]

Transformations:

if (DATE EPI COMM = > 01/09/2003), CLA\_Ever = 1

if CLA\_CL = 1, CLA\_Ever = 0

recode CLA\_Ever (SYSMIS = 0) (else = copy) into CLA\_Ever

Analytic variable:

CLA\_Ever

1 = Yes, ever in care

0 = No, not ever in care

### Group 3: Ever Subject of a Child Protection Plan

Those on a child protection plan at any point after the age of 11 (Ever CPP).

#### Variables used:

CPPstart (Date Date of child protection plan) [CIN]

CIN\_Age (Age at each return)

#### Transformations:

if CIN\_Age = > 11 and not(miss(CPPstartDate)) CPP = 1

recode CPP (SYSMIS = 0) (else = copy) into CPP

if CLA\_CL = 1 or CLA\_Ever = 1, CPP = 0

#### Analytic variable:

CPP

1 = Yes, had CPP

0 = No, never had CPP

### Group 4: Classed as a Child in Need (more than 6 months)

Those designated as being in need at any point after the age of 11 and where episodes of need totalled six months or longer (CIN > 6 months).

#### Variables used:

CIN\_ReferralDate (Date child referred to social services) [CIN]

CIN\_ClosureDate (Date case was closed) [CIN]

CIN\_ReferralNFA (Referred but no action taken) [CIN]

CIN\_AgeStart (Age at referral) [CIN]

CIN\_Age (Age at each return)

#### Transformations:

compute Referral\_Start = CINReferralDate

compute Referral\_End = CINClosureDate

if CIN\_NFA = 1 Referral\_End = Referral\_Start

compute CIN\_days = datediff(Referral\_End, Referral\_Start, 'Days')

if (CIN\_age >= 11) CIN\_days11 = datediff(D\_Referral\_End, D\_Referral\_Start, 'Days')

compute CIN6m = 0

if (CIN\_days11 > 180) CIN6m = 1

if CLA\_CL = 1 or CLA\_Ever = 1 or CPP = 1, CIN6m = 0

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Analytic variable:

CIN6m

1 = Yes, classed as CiN > 6m

0 = No, never classed as CiN > 6m

## Group 5: Classed as a Child in Need (less than 6 months)

Those designated as being in need at any point after the age of 11 and where episodes of need totalled less than six months (CIN < 6 months).

Variables used:

CIN\_days 'Days classed as in need' [CIN]

Transformations:

compute CIN = 0

if (CIN\_days > 11, 1, 180) CIN = 1

if CLA\_CL = 1 or CLA\_Ever = 1 or CPP = 1 or CIN6m = 1 CIN=0.

Analytic variable:

CIN

1 = Yes, classed as CiN < 6m

0 = No, never classed as CiN < 6m

## Group 6: The FSM Population

All other children born between 1 September 1998 and 31 August 1999 and also *eligible* for Free School Meals in the last 6 years, as of KS4 (i.e., covering KS2 and KS4) (FSM pop).

Variables used:

CLA\_CL (from Group 1: care leavers)

CLA\_Ever (from Group 2: ever in care)

CPP (from Group 3: ever subject of a Child Protection Plan)

CIN (from Group 4: ever classed as a Child in Need > 6m)

CIN6m (from Group 5: Child in Need ever < 6m)

KS4\_Ever6 'Eligible for FSM at some point in the last six years' [NPD]

Transformations:

if KS4\_FSM6 = 1 FSM6\_Pop = 1

if (CLA\_CL = 1 or CLA\_Ever = 1 or CPP = 1 or CIN = 1 or CIN6m = 1) FSM6\_Pop = 0

Analytic variable:

FSM6\_Pop

1 = Yes, FSM eligible

0 = No, not FSM eligible

## Group 7: The General Population

All other children born between 1st September 1998 and 31st August 1999 who met the additional selection criteria of being in both KS2 and KS4 datasets (General pop).

Variables used:

CLA\_CL (from Group 1: care leavers)

CLA\_Ever (from Group 2: ever in care)

CPP (from Group 3: ever subject of a Child Protection Plan)

CIN6m (from Group 4: ever classed as a Child in Need > 6m)

CIN (from Group 5: ever classed as a Child in Need < 6m)

KS4\_Ever6 'Eligible for FSM at some point in the last six years' [NPD]

KSall (case as valid data for both KS2 and KS4)

Transformations:

if KSall = 1, Total\_Pop = 1,

if (CLA\_CL = 1 OR CLA\_Ever = 1 OR CPP = 1 OR CIN = 1 OR CIN6m = 1 OR KS4\_FSM6 = 1,

Total\_Pop = 0

Analytic variable:

Total\_Pop

1 = Yes, in Total\_Pop

0 = No, not in Total\_Pop

Analytic variable: Outcome\_gp

if CLA\_CL = 1 Outcome\_gp = 1 (Care Leavers)

if CLA\_Ever = 1 Outcome\_gp = 2 (Ever in Care)

if CPP = 1 Outcome\_gp = 3 (Ever CPP)

if CIN6m = 1 Outcome\_gp = 4 (CIN > 6 months)

if CIN = 1 Outcome\_gp = 5 (CIN < 6 months)

if FSM6\_Pop = 1 Outcome\_gp = 6 (FSM pop)

if Total\_Pop = 1 Outcome\_gp = 7 (General pop)

## II. Outcome Variables

### Initial Entry to Higher Education (OV1)

A binary variable of initial entry to higher education, where initial is defined as the first enrolment for a Level 4 qualification (HE Entry).

#### Variables used:

HE\_COMDATE (HESA; Date of commencement of programme)

ILA\_D\_NOTIONLEV (ILR; NVQ level)

-1 = Missing (not applicable/not known)

0 = Entry Level

1 = Level 1

2 = Level 2

3 = Level 3

4 = Level 4

5 = Level 5

6 = Level 6

7 = Level 7 or higher

-9 = Other

ILA\_LEARNSTARTDATE [this study's numeric version = ILA\_Start] (ILR; Learning start date)

HE\_ACADYR [this study's numeric version = HE\_Year] (HESA; Academic year)

ILA\_Academic\_Year [this study's numeric version = ILA\_Year] (ILR; Academic year)

#### Transformations:

```
if not(missing(HE_COMDATE)) HESA_flag = 1  
(else = 0)
```

```
if D_NOTIONLEV >= 4 ILA_HE = 1  
(else = 0)
```

```
HE = sum(ILA_HE, HESA_flag)  
if ILA_HE = 1 ILA_HE_Start = ILA_Start  
if HE = 2 and ILA_HE_Start < HE_COMD PriorEntry = 1  
if ILA_HE = 1, ILA_HE_Entry = ILA_Year
```

```
compute HE_EntryYear = ILA_HE_Entry  
if HESA_flag = 1 HE_EntryYear = HE_Year  
if PriorEntry = 1 HE_EntryYear = ILA_HE_Entry
```

```
compute HE_Entry=0.  
if not(missing(HE_EntryYear)) HE_Entry= 1.
```

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compute OV1= HE\_Entry.

compute OV1b=0.

if HE\_Year < 20 OV1b= 1.

Analytic variables:

OV1 (HE Entry)

1 = Yes, entered HE

0 = No, did not enter HE

HE\_EntryYear (Year entered HE)

17 = 2015/16

18 = 2016/17

19 = 2017/18

20 = 2018/19

21 = 2019/20

22 = 2020/21

PriorEntry (Entered HE prior to university; aka, Entered HE pathway prior to entering university)

1 = Yes

0 = No

OV1b (Age 18/19 entry to HE)

1 = Yes, entered by age18/19

0 = No, did not enter by age18/19

## **Type of Institution Initially Attended (OV2)**

A categorical variable capturing the type of HE institution initially attended (where initial is defined as the first enrolment for a Level 4 qualification), including elements of selectivity (i.e., Boliver groups) and whether a further or higher education provider (Boliver Status of HE Institution Initially Attended).

Variables used:

HE\_UKPRN (HESA; institution code)

See University Tables.xlsx, sheet1

Transformations:

recode HE\_UKPRN ... into HE\_Boliver

(10007786, 10007774 = 1)

(10007814, 10002718, 10007764, 10003270, 10003645, 10004063, 10004113, 10007799,

10007775, 10005343, 10005553, 10007780, 10007798, 10007784, 10007783, 10007850,

10006840, 10007786, 10007852, 10007143, 10007789, 10007790, 10007792,

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10007794,10007150, 10007768, 10007795, 10007796, 10005842, 10007154, 10007802, 10007157, 10007158, 10007808, 10007805,10007160, 10007806, 10007163, 10007167 = 2)

(10000385, 10007759, 10007857, 10000571,10007140,10000824,10000961, 10001143, 10007854, 10001726, 10001883,10007772, 10008640, 10007762, 10040812, 10003678, 10003861,10003957, 10004078, 10004180, 10004351, 10007832, 10001282, 10004797,10004950, 10007801, 10007856,10005357, 10007775, 10005790, 10005299, 10007855, 10007161,10001478, 10005500, 10007137, 10007165,10006427, 10007845, 10007152, 10007785, 10000885, 10007141,10007848, 10007851, 10007791,10007145, 10007146, 10007147, 10007148,10007149 10007767 = 3)

(10007151, 10007138, 10007155, 10007156, 10007793,10007804, 10007159,10007162, 10007114, 10007164, 10007800,10007807,10006566, 10003614,100071393, 10000291, 10007811, 10000975, 10007823, 10007833, 10003863, 10003956, 10004048, 10006022, 10007842, 10014001,10000712, 10006841,10007144, 10037449, 10007858, 10007166, 10007713 = 4)

(10007760, 10007761, 10007822, 10002681, 10007825, 10007765, 10003324 10007766, 10003654,10084449, 10007769,10007771, 10008816, 10004775, 30007773, 10005389, 10005523, 10007835, 10005545, 10007777,10007778, 10005561, 10007837, 10007838,10007781,10005700, 10008026, 10007843, 10007782, 10008010, 10007846, 10001653, 10003945 10007816, 10007779, 10007787, 10008017,10007797,10008574, 10007557, 10083811, 10000163, 10000936,10003958, 10004511, 10005127, 10007820, 10009614, 10003758, 10009292,10003758 = 5)

compute Boliver = HE\_Boliver  
if PriorEntry = 1 Boliver = 6  
if mis(HE\_Boliver) and HE\_Entry = 1 Boliver = 6

recode Boliver (1,2=1) (2 thru 6=0) into OV2b.

### Analytic variables:

Boliver (Prestige/status of institution initially attended) (OV2)

- 1 = Oxbridge
- 2 = Russell group/old universities
- 3 = New/old universities
- 4 = New universities
- 5 = Non-grouped
- 6 = FE colleges

OV2b (Top-tier Higher Education Institution; aka, Top-tier Boliver)

- 1 = Yes, Top-tier
- 2 = No, Not top-tier

### **Qualification Initially Pursued (OV3)**

A categorical variable indicating the HE qualification, or type of programme, initially pursued (where initial is defined as the first enrolment for a Level 4 qualification); that



is, whether the individual was enrolled in studying for a first (e.g., bachelor's) degree, a subdegree or no degree.

Variables used:

ILA\_LEARNAIMREF (relevant codes for qualifications can be found at the Learning aim reference service (LARS), where the Learn Aim Ref Type is used to provide the required code description). See ILR\_LearnAim.xlsx, learningdelivery (renamed ILA\_AimRef)

HE\_CourseAim (derived from UNISTATS\_COURSEAIM\_1.7.3; HESA)

Transformations:

recode HE\_CourseAim

('D00' = 1) ('E00' = 1)  
('L00' = 2) ('M00' = 2) ('M01' = 2) ('M02' = 2) ('M10' = 2) ('M11' = 2) ('M16' = 2)  
('L80' = 3) ('M41' = 3) ('M42' = 3) ('M44' = 3) ('M50' = 3) ('M70' = 3) ('M71' = 3) ('M72' = 3) ('M73'-3)  
('M73' = 3) ('M76' = 3) ('M79'-3) ('M80'-3) ('M86' = 3) ('M88' = 3) ('L91' = 3) ('M90' = 3) ('M91' = 3)  
('H71' = 3)  
('M22' = 4) ('M26' = 4) ('M28' = 4)  
('H00' = 5) ('H11' = 5) ('H12' = 5) ('H16' 116' = 5) ('H18' = 5) ('H22'-5) ('H23' = 5) ('H50' = 5) ('I00' = 5)  
('I11' = 5) ('I16' = 5)  
('J10' = 6) ('J16' = 6)  
('J20' = 7) ('J26' = 7) ('J30' = 7)  
('C20' = 8) ('C30' = 8) ('C41' = 8) ('C42' = 8) ('C80' = 8) ('H41' = 8) ('H42' = 8) ('H60' = 8) ('H61' = 8)  
('H70' = 8) ('H72' = 8) ('H81' = 8) ('H88' = 8) ('I60' = 8)  
('I61' = 8) ('I70' = 8) ('I71' = 8) ('I73' = 8) ('I76' = 8) ('I78' = 8) ('I79' = 8) ('I80' = 8) ('J41' = 8) ('J42' = 8)  
('J76' = 8) ('J80' = 8)  
('C90' = 9) ('H90' = 9) ('H91' = 9) ('I90' = 9) ('I91' = 9) ('I90' = 9)  
('P41' = 10) ('P42' = 10) ('P43' = 10) ('P70' = 10) ('P80' = 10) ('P85'-10) ('P90' = 10) ('Q41' = 10)  
('Q42' = 10) ('Q43' = 10) ('Q50' = 10)  
('Q80' = 10) ('Q90' = 10) ('R42' = 10) ('R43' = 10) ('R45' = 10) ('R80' = 10) ('S80' = 10) ('X01 = 10)  
('X41' = 10) ('C99' = 11) ('H99' = 11) ('J99 = 11) ('M99' = 11) ('X99' = 11) into HE\_CourseAim2

HE\_CourseAim2

- 1 = Doctorate
- 2 = Master's degree
- 3 = PGCE and other postgraduate
- 4 = Integrated master's degree
- 5 = Degree
- 6 = Foundation degree
- 7 = HND/DipHE
- 8 = Other undergraduate
- 9 = Undergraduate credits
- 10 = FE
- 11 = No formal qualification

recode HE\_CourseAim2

(1 thru 3 = 1) (4,5 = 2) (6 thru 9 = 3) (10 = 4) (11 = -9) into HE\_Prog

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```
recode ILA_AimRef  
(2001, 1410, 1464, 9101, 9109, 9114 = 2)  
(125, 6004, 9103, 9115 = 3)  
(394,1407, 1409, 6003, 9000, 9002, 9107 = 5)  
(6001, 9110 = 6)  
(24, 32, 84, 117, 1454, 1458, 9112 = 7)  
(6, 9, 16, 31, 1448,1452,1457, 1465, 1467, 9111, 4342 = 8)  
into ILA_CourseaimHE
```

2 = Master's degree  
3 = PGCE and other postgraduate  
5 = First degree  
6 = Foundation degree  
7 = HND/DipHE  
8 = Other undergraduate

```
recode ILA_CourseaimHE (2 thru 3 = 1) (5=2) (6 thru 8 = 3) into ILA_Prog
```

```
compute CourseAim = HE_CourseAim2  
if PriorEntry = 1 CourseAim = ILA_CourseaimHE  
if missing(HE_CourseAim2) and HE_Entry = 1 CourseAim = ILA_CourseaimHE
```

```
recode CourseAim (1 thru 5 = 1) (6 thru 9 = 2) (10,11 = 3) into OV3.
```

```
recode CourseAim (1 thru 3 = 1) (4 thru 5 = 2) (6 thru 9 = 3) (10 thru 11 = 4) into OV3a
```

```
recode CourseAim (1 thru 4= 1) (5 = 2) (6 thru 9 = 3) (10 thru 11 = 4) into OV3b
```

#### Analytic variables:

OV3 (qualification initially pursued; aka, Type of Higher Education Programme Initially Pursued)

1 = Degree+  
2 = Subdegree  
3 = No degree

Auxiliary OV3a (qualification initially pursued)

1 = Post-graduate  
2 = Degree  
3 = Subdegree  
4 = No degree

Auxiliary OV3b (qualification initially pursued, integrated Master's degree as higher degree)

1 = Post-graduate  
2 = Degree  
3 = Subdegree  
4 = No degree

## University Continuity (OV4)

A binary variable indicating the continuity of a young person's pathway through university, defined as remaining on the same course in the same institution with the same attendance mode vs. changes in course, institution, mode or pauses in study (Continuity through University).

### Variables used:

UKPRN (HESA; Institution code, to assess change in institution)

NOTACT (HESA; Suspension of active studies)

1 = Student has suspended studies

2 = DH/NHS student temporarily stepping off Continuity Register

XQMODE01 (HESA; Qualification obtained mode of study)

1 = Full time

2 = Part time

HE\_XJACS01\_1 (HESA; Subject of study 1) – pre-2019/2020

1 = Medicine and dentistry ('1' = 1)

2 = Subjects allied to medicine ('2' = 2)

3 = Biological sciences ('3' = 3)

4 = Veterinary science ('4' = 4)

5 = Agriculture and related subjects ('5' = 5)

6 = Physical sciences ('6' = 6)

7 = Mathematical sciences ('7' = 7)

8 = Computer science ('8' = 8)

9 = Engineering and technology ('9' = 9)

10 = Architecture, building and planning ('A' = 10)

11 = Social studies ('B' = 11)

12 = Law ('C' = 12)

13 = Business and administrative studies ('D' = 13)

14 = Mass communications and documentation ('E' = 14)

15 = Languages ('F' = 15)

16 = Historical and philosophical studies ('G' = 16)

17 = Creative arts and design ('H' = 17)

18 = Education ('I' = 18)

19 = Combined ('J' = 19)

XCAH01\_1 (HESA; Subject of study 1 – subject) – 2019/2020+

1 = Medicine and dentistry

2 = Subjects allied to medicine

3 = Biological and sport sciences

3 = Psychology

4 = Veterinary sciences

5 = Agriculture, food and related studies

6 = Physical sciences

6 = Geography, earth and environmental studies

6 = Geographical and environmental studies

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7 = Mathematical sciences  
8 = Engineering and technology  
8 = Computing  
10 = Architecture, building and planning  
11 = Social sciences  
12 = Law  
13 = Business and management  
14 = Media, journalism and communications  
14 = Communications and media  
15 = Language and area studies  
16 = Historical, philosophical and religious studies  
17 = Design, and creative and performing arts  
17 = Creative arts and design  
18 = Education and teaching  
19 = Combined and general studies  
19 = General and others in sciences  
19 = Humanities and liberal arts (non-specific)

#### ILA\_SECSUBJAREATIER1

1 = Health, Public Services and Care  
2 = Science and Mathematics  
3 = Agriculture, Horticulture and Animal Care  
4 = Engineering and Manufacturing Technologies  
5 = Construction, Planning and the Built Environment  
6 = Information and Communication Technology  
7 = Retail and Commercial Enterprise  
8 = Leisure, Travel and Tourism  
9 = Arts, Media and Publishing  
10 = History, Philosophy and Theology  
11 = Social Sciences  
12 = Languages, Literature and Culture  
13 = Education and Training  
14 = Business, Administration and Law  
15 = Preparation for Life and Work

#### Transformations:

recode HE\_XJACS01\_1 ... into HE\_XJACS (OV4.a – Course/subject change)

('1' = 1) ('2' = 2) ('3' = 3) ('4' = 4) ('5' = 5) ('6' = 6) ('7' = 7) ('8' = 8) ('9' = 9) ('A' = 10) ('B' = 11) ('C' = 12) ('D' = 13) ('E' = 14) ('F' = 15) ('G' = 16) ('H' = 17) ('I' = 18) ('J' = 19)

recode HE\_XCAH01\_1 ... into HE\_XCAH (OV4.a – Course/subject change)

('CAH01' = 1) ('CAH02' = 2) ('CAH03' = 3) ('CAH04' = 3) ('CAH05' = 4) ('CAH06' = 5) ('CAH07' = 6) ('CAH09' = 7) ('CAH10' = 8) ('CAH11' = 8) ('CAH13' = 10) ('CAH15' = 11) ('CAH16' = 12) ('CAH17' = 13) ('CAH19' = 15) ('CAH20' = 16) ('CAH22' = 18) ('CAH23' = 19) ('CAH24' = 14) ('CAH25' = 17) ('CAH26' = 6) (CAH08 = 19) (CAH12 = 6) (CAH14 = 19) (CAH18 = 14) (CAH21 = 17)

compute HE\_SBJ=sum(HE\_XJACS, HE\_XCAH).

numeric HE\_SBJ17 to HE\_SBJ21.

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if HE\_year = 2017, HE\_SBJ17 = HE\_XJACS

if HE\_year = 2018, HE\_SBJ18 = HE\_XJACS

if HE\_year = 2019, HE\_SBJ19 = HE\_XJACS

if HE\_year = 2020, HE\_SBJ20 = HE\_XCAH

if HE\_year = 2021, HE\_SBJ21 = HE\_XCAH

compute SubjCh (OV4.a – Course/subject change)

if (HE\_SBJ17 ne HE\_SBJ18 or HE\_SBJ18 ne HE\_SBJ19 or HE\_SBJ19 ne HE\_SBJ20 or HE\_SBJ20 ne HE\_SBJ21 or HE\_SBJ17 ne HE\_SBJ19 or HE\_SBJ17 ne HE\_SBJ20 or HE\_SBJ17 ne HE\_SBJ21 or HE\_SBJ18 ne HE\_SBJ20 or HE\_SBJ18 ne HE\_SBJ21 or HE\_SBJ19 ne HE\_SBJ21) SubjCh = 1

numeric HE\_UKPRN17 to HE\_UKPRN21

if HE\_Year = 2017, HE\_UKPRN17 = HE\_UKPRN

if HE\_Year = 2018, HE\_UKPRN18 = HE\_UKPRN

if HE\_Year = 2019, HE\_UKPRN19 = HE\_UKPRN

if HE\_Year = 2020, HE\_UKPRN20 = HE\_UKPRN

if HE\_Year = 2021, HE\_UKPRN21 = HE\_UKPRN

compute InstChge (OV4.b – Institution Change)

if (HE\_UKPRN17 ne HE\_UKPRN18 or HE\_UKPRN18 ne HE\_UKPRN19 or HE\_UKPRN19 ne HE\_UKPRN20 or HE\_UKPRN20 ne HE\_UKPRN21 or HE\_UKPRN17 ne HE\_UKPRN19 or HE\_UKPRN17 ne HE\_UKPRN20 or HE\_UKPRN17 ne HE\_UKPRN21 or HE\_UKPRN18 ne HE\_UKPRN20 or HE\_UKPRN18 ne HE\_UKPRN21 or HE\_UKPRN19 ne HE\_UKPRN21) InstCh = 1

compute ModeT (OV4c (Change in mode of study full or part time))

recode HE\_XQMODE01 ... into HE\_QMode

(4 = -9)

(else = copy)

compute HE\_QModf = 'First recorded mode of study' from XQMODE01

compute HE\_QModel = 'Last recorded mode of study' from XQMODE01

if HE\_QModf = 1 & HE\_QModel = 1, ModeFT = 1 'Maintained full-time study', else = 0

if HE\_QModf = 2 & HE\_QModel = 2, ModePT = 1 'Maintained part-time study', else = 0

compute ModeT = 1

if ModeFT = 1 or ModePT = 1, ModeT = 0

if (HE\_QModf = -9) or (HE\_QModel = -9) ModeT = -9

compute HE\_SuspT (OV4d – Paused studies at any point ...)

recode HE\_NOTACT ... into HE\_Susp 'paused studies'

(1,2 = 1)

(else = 0)

if HE\_year = 2017, HE\_Susp17 = HE\_Susp

if HE\_year = 2018, HE\_Susp18 = HE\_Susp

if HE\_year = 2019, HE\_Susp19 = HE\_Susp

if HE\_year = 2020, HE\_Susp20 = HE\_Susp

if HE\_year = 2021, HE\_Susp21 = HE\_Susp

compute HE\_Suspd = 0

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if (HE\_Susp17 = 1 or HE\_Susp18 = 1 or HE\_Susp19 = 1  
or HE\_Susp20 = 1 or HE\_Susp21 = 1) HE\_Suspd = 1

compute OV4 = 0 (Continuous pathway through university)

if SubjCh1 = 0 & InstChge = 0 & HE\_Suspd = 0 & ModeT = 0 OV4 = 1

(HE subject initially pursued)

recode ILA\_SECSUBJAREATIER1 (1=2) (2=8) (3=5) (4=9) (5=10) (6=8) (7=13)  
(8=13) (9=14) (10=16) (11=11) (12=15) (13=18) (14=13) into ILA\_Subject

numeric Subject

if HE\_ILA=1 Subject=HE\_SBJ

if HE\_ILA=2 Subject=ILA\_Subject

Analytic variables:

OV4 (University continuity)

1 = Yes, university continuity

0 = No, university discontinuity

SubjCh1 (Auxiliary OV4a – Course/subject change; aka, Changed university subject )

1 = Yes, course/subject change

0 = No, no course/subject change

InstChge (Auxiliary OV4b – Institution change; aka, Changed university)

1 = Yes, institution change

0 = No, no institution change

ModeT (Auxiliary OV4c – Changed mode of study: full or part time)

1 = Yes, change of full- or part-time study

0 = No, no change of full- or part-time study

ModeFT (Auxiliary OV4c2 – Maintained full-time study)

1 = Yes, maintained full time

0 = No, did not maintain full time

ModePT (Auxiliary OV4c3 – Maintained part-time study)

1 = Yes, maintained part time

0 = No, did not maintain part time

HE\_Suspd (Auxiliary OV4d – Paused studies at any point; aka, Suspended studies)

1 = Yes, paused studies

0 = No, did not pause studies

Subject (Auxiliary OV4e – Subject initially pursued)

1 = Medicine and dentistry

2 = Subjects allied to medicine

3 = Biological sciences

4 = Veterinary science

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- 5 = Agriculture and related subjects
- 6 = Physical sciences
- 7 = Mathematical sciences
- 8 = Computer science
- 9 = Engineering and technology
- 10 = Architecture, building and planning
- 11 = Social studies
- 12 = Law
- 13 = Business and administrative studies
- 14 = Mass communications and documentation
- 15 = Languages
- 16 = Historical and philosophical studies
- 17 = Creative arts and design
- 18 = Education
- 19 = Combined

### **Higher Education Qualification Achieved (by Age 22) (OV5)**

'A categorical variable capturing higher education outcomes within the specified timeframe – i.e. completion of degree, completion of planned sub-degree qualification, withdrawn with unplanned "interim" qualification, still studying or withdrawn without qualification' (Tah & Feinstein, 2023, p. 3).

#### Variables used:

HE\_Entry (Entered HE)

HE\_XQOBTN01

- 1 = Doctorate
- 2 = Other higher degree
- 3 = PGCE
- 4 = Other postgraduate
- 5 = First degree
- 6 = Professional graduate certificate
- 7 = Foundation degree
- 8 = HND/DipHE
- 9 = Other undergraduate
- 10 = FE
- 11 = No qualification

HE\_RSNEED (HESA; Reason for ending instance)

- 1 = Successful completion of course
- 2 = Academic failure/left in bad standing/not permitted to progress
- 3 = Transferred to another provider
- 4 = Health reasons
- 5 = Death
- 6 = Financial reasons
- 7 = Other personal reasons and dropped out

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8 = Written off after lapse of time  
9 = Exclusion  
10 = Gone into employment  
11 = Other  
98 = Completion of course – result unknown  
99 = Unknown

HE\_XPSR01 (Standard registration population marker)

0 = Not recorded  
1 = Record HE  
2 = Record FE

HE\_END (End date of HE instance)

ILA\_HE (ILR, HE entry)

1 = Yes  
0 = No

ILA\_CourseaimHE

2 = Master's degree  
3 = PGCE and other postgraduate  
5 = First degree  
6 = Foundation degree  
7 = HND/DipHE  
8 = Other undergraduate

ILA\_COMPSTATUS renamed ILA\_Compl (Completion status)

1 = Continuing  
2 = Completed  
3 = Withdrawn  
4 = Transferred  
5 = Temporarily withdrawn

CourseAim

1 = Doctorate  
2 = Master's degree  
3 = PGCE and other postgraduate  
4 = Integrated master's degree  
5 = Degree  
6 = Foundation degree  
7 = HND/DipHE  
8 = Other undergraduate  
9 = Undergraduate credits  
10 = FE  
11 = No formal qualification

Transformations:

recode HE XQOBTN01  
( 'D00' = 1)



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```
('LOO' = 2) ('M00' = 2) ('M01' = 2) ('M11' = 2)
('M71' = 3) ('M41' = 3) ('M42' = 3) ('M44' = 3) ('M70' = 3) ('M72' = 3) ('M73' = 3) ('M79' = 3)
('M80' = 3) ('M88' = 3) ('M90' = 3) ('H71' = 3)
('M22' = 4) ('M2 M26' = 4)
('H00' = 5) ('H11' = 5) ('H12' = 5) ('H16' = 5) ('H18' = 5) ('H22' = 5) ('H23' = 5) ('I00' = 5) ('I11' = 5)
('I16' = 5)
('J10' = 6) ('J16' = 6)
('J20' = 7) ('J26' = 7) ('J30' = 7) ('J30' = 7)
('C20' = 8) ('C30' = 8) ('C41' = 8) ('C42' = 8) ('C80' = 8) ('H41' = 8) ('H42' = 8) ('H60' = 8) ('H61' = 8)
('H72' = 8) ('H76' = 8) ('H80' = 8) ('I61' = 8) ('I70' = 8) ('I71' = 8) ('I73' = 8) ('I76' = 8) ('I78' = 8) ('I79' =
8) ('I80' = 8) ('J41' = 8) ('J42' = 8) ('J76' = 8) ('J80' = 8)
('P41' = 9) ('P42' = 9) ('P43' = 9) ('P80' = 9) ('P85' = 9) ('P90' = 9) ('Q41' = 9) ('Q42' = 9)
('Q43' = 9) ('Q50' = 9) ('Q80' = 9) ('Q90' = 9) ('R42' = 9) ('R43' = 9) ('R50' = 9) ('R80' = 9) ('R90' = 9)
('S80' = 9) ('S90' = 9) ('X00' = 9) ('X01' = 9) ('X41' = 9)
('C90' = 10) ('H90' = 10) ('H91' = 10) ('I90' = 10) ('J90' = 10)
(else = 11) into HE_Qual
```

1 = Doctorate  
2 = Master's degree  
3 = PGCE and other postgraduate  
4 = Integrated master's degree  
5 = First degree  
6 = Foundation degree  
7 = HND/DipHE  
8 = Other undergraduate  
9 = Undergraduate credits  
10 = FE  
11 = No formal qualification

Aggregate /break PMR/ HE\_Qual2=min(HE\_Qual) (highest qualification obtained)

recode HE\_Qual2  
(1 thru 3 = 1) (4,5 = 2) (6 thru 9 = 3) (10 = 4) (11 =5) into HE\_Qualgp

HE\_Qualgp  
1 = Postgraduate  
2 = Degree  
3 = Subdegree  
4 = FE  
5 = No qualification

numeric ILA\_HQualComp.  
If ILA\_Cmpl=2 ILA\_HQualComp= ILA\_CourseaimHE  
If ~ILA\_Cmpl=2 ILA\_HQualComp=11

recode ILA\_HQualComp (1 thru 3=1) (4 thru 5=2) (6 thru 9=3) (11=5) into ILA\_HQualgp

ILA\_HQualgp  
1 = Postgraduate  
2 = Degree  
3 = Subdegree

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5 = No qualification

compute HE\_ILA=HE\_Entry.

if ILA\_HE=1 ILA\_HE=2.

if HE=2 & ILA\_HE=1 ILA\_HE=1.

1 = HESA

2 = ILR

numeric HQual.

If HE\_ILA=1 HQual= HE\_Qual2.

If HE\_ILA=2 HQual= ILA\_HQualComp.

recode HQual (1 thru 3=1) (4 thru 5=2) (6 thru 9=3) (10=4) (11=5) into HQualgp

HQualgp

1 = Postgraduate

2 = Degree

3 = Subdegree

4 = FE

5 = No qualification

recode HQual (1 thru 4=1) (5=2) (6 thru 9=3) (10=4) (11=5) into HQualgpM

HQualgpM

1 = Postgraduate

2 = Degree

3 = Subdegree

4 = FE

5 = No qualification

recode HE\_RSNEND (1 = 1) (98 = 1) (2 = 3) (3 = 2) (4 thru 11 = 4) (99 = 4) into HE-Withdgp

1 = Completed

2 = Transferred provider

3 = Academic failure

4 = Withdrawn other

numeric HE\_QualCompl.

If HE\_Qual2 <11 HE\_QualCompl=1.

if HE\_Qual2=11 HE\_QualCompl=2.

if HE-Withdgp>2 HE\_QualCompl=3.

if HE-Withdgp=2 HE\_QualCompl=4.

If HE\_Susp=1 HE\_QualCompl=5.

1 = Completed

2 = Continuing

3 = Withdrawn

4 = Transferred

5 = Paused

numeric ILA\_CmplHE.

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If ILA\_HE=2 ILA\_ComplHE=ILA\_Compl.

recode ILA\_ComplHE  
(1-2) (2=1) (else=copy) into ILA\_ComplHEa.

numeric ComplHE.  
if HE\_ILA=1 ComplHE=HE\_QualCompl.  
if HE\_ILA=2 ComplHE=ILA\_ComplHEa.

ComplHE  
1 = Completed  
2 = Continuing  
3 = Withdrawn  
4 = Transferred  
5 = Paused

compute Q5a=0.  
if range (HQualgp,1,2) Q5a=1  
(degree plus)

compute Q5b=0.  
if HQualgp=3 Q5b=1.  
if CourseAim<6 and range(HQualgp,3,4) and HE\_Withdgp>2 Q5b=0  
(subdegree minus withdrawn unplanned)

compute Q5d=0.  
if ComplHE=2 or ComplHE=4 or ComplHE=5 Q5d=1  
if range(HQualgp,1,3) Q5d=0.  
(continuing studies minus achieved qualification)

compute Q5c=0.  
if CourseAim<6 and range(HQualgp,3,4) Q5c=1  
if Q5b=1 Q5c=0.  
(unplanned qualification minus completed subdegree)

compute Q5e=0.  
if ComplHE=3 Q5e=1.  
if range(HQualgp,1,3) Q5e=0  
if Q5c=1 Q5e=0.  
(withdrawn minus completed qualification or unplanned qualification)

numeric OV5.  
if Q5a=1 OV5=1.  
if Q5b=1 OV5=2.  
if Q5d=1 OV5=3.  
if Q5c=1 OV5=4.  
if Q5e=1 OV5=5.

compute OV5a= HQual  
recode OV5 (1=1) (2 thru 5=0) into OV5b.  
compute OV5c= HQualgp

Analytic variables:

OV5 (HE qualification)

- 1 = Completion of degree (Completed: Degree)
- 2 = Completion of subdegree (Completed: Subdegree)
- 3 = Continuing studies
- 4 = Withdrawn with unplanned qualification (Withdrew: Unplanned qualification)
- 5 = Withdrawn without qualification (Withdrew: No qualification)

HQual (OV5a – HE qualification)

- 1 = Doctorate
- 2 = Master's degree
- 3 = PGCE and other postgraduate
- 4 = Integrated Master's degree
- 5 = First degree
- 6 = Foundation degree
- 7 = HND/DipHE
- 8 = Other undergraduate
- 9 = Undergraduate credits
- 10 = FE
- 11 = No formal qualification

Degree (OV5b – Obtained HE degree qualification)

- 1 = Yes
- 0 = No

HQualgp (OV5c – HE qualification achieved)

- 1 = Postgraduate
- 2 = Degree
- 3 = Subdegree
- 4 = FE
- 5 = No qualification

HQualgpM (OV5d – HE qualification achieved, integrated Master's degree as higher degree)

- 1 = Postgraduate
- 2 = Degree
- 3 = Subdegree
- 4 = FE
- 5 = No qualification

DegClall (OV5e – Classification awarded)

- 1 = First-class honours
- 2 = Upper second-class honours
- 3 = Lower second-class/third class honours
- 4 = Other

### III. Explanatory Variables (EV1 – EV32)

#### **Sex/Gender (EV1)**

Variables used:

KS4\_FEMALE (NPD)

0 = No

1 = Yes

Transformations:

if KS4\_FEMALE = 1, Gender = 1

if KS4\_FEMALE = 0, Gender = 2

(else = 9)

Analytic variables:

Gender

1 = Female

2 = Male

9 = Missing

#### **Race/Ethnicity (EV2)**

Variables used:

KS4\_ETHNIC (NPD)

AAFR = African Asian

ABAN = Bangladeshi

AIND = Indian

AKAO = Kashmiri other

AKPA = Kashmiri Pakistani

AMPK = Mirpuri Pakistani

ANEP = Nepali

AOPK = Other Pakistani

AOTA = Other Asian

AOTH = Any other Asian background

APKN = Pakistani

ASLT = Sri Lankan Tamil

ASNL = Sri Lankan Sinhalese

ASRO = Sri Lankan other

BAFR = Black African

BANN = Black Angolan

BAOF = Other Black African

BCON = Black Congolese

BCRB = Black Caribbean

BEUR = Black European

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BGHA = Black Ghanaian  
BNAM = Black North American  
BNGN = Black Nigerian  
BOTB = Other Black  
BOTH = Any other Black background  
BSLN = Black Sierra Leonian  
BSOM = Black Somali  
BSUD = Black Sudanese  
CHKC = Hong Kong Chinese  
CHNE = Chinese  
CMAL = Malaysian Chinese  
COCH = Other Chinese  
CSNG = Singaporean Chinese  
CTWN = Taiwanese  
MABL = Asian and Black  
MACH = Asian and Chinese  
MAOE = Asian and any other ethnic group  
MBCH = Black and Chinese  
MBOE = Black and any other ethnic group  
MCOE = Chinese and any other ethnic group  
MOTH = Any other mixed background  
MOTM = Other mixed background  
MWAI = White and Indian  
MWAO = White and any other Asian background  
MWAP = White and Pakistani  
MWAS = White and Asian  
MWBA = White and Black African  
MWBC = White and Black Caribbean  
MWCH = White and Chinese  
MWOE = White and any other ethnic group  
NOBT = Information not yet obtained  
OAFG = Afghan  
OARA = Arab other  
OEGY = Egyptian  
OFIL = Filipino  
OIRN = Iranian  
OIRQ = Iraqi  
OJPN = Japanese  
OKOR = Korean  
OKRD = Kurdish  
OLAM = Latin/South/Central American  
OLEB = Lebanese  
OLIB = Libyan  
OMAL = Malay  
OMRC = Moroccan  
OOEG = Other ethnic group  
OOTH = Any other ethnic group  
OPOL = Polynesian  
OTHA = Thai  
OVIE = Vietnamese  
OYEM = Yemeni

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REFU = Refused  
WALB = Albanian  
WBOS = Bosnian-Herzegovinian  
WBRI = White British  
WCOR = White Cornish  
WCRO = Croatian  
WEEU = White Eastern European  
WENG = White English  
WEUR = White European  
WGRC = Greek Cypriot  
WGRE = Greek/Greek Cypriot  
WGRK = Greek  
WIRI = White Irish  
WIRT = Traveller of Irish heritage  
WITA = Italian  
WKOS = Kosovan  
WOTH = Any other White background  
WOTW = White other  
WOWB = Other White British  
WPOR = Portuguese  
WROM = Gypsy/Roma  
WSCO = White Scottish  
WSER = Serbian  
WTUC = Turkish Cypriot  
WTUK = Turkish  
WTUR = Turkish/Turkish Cypriot  
WWEL = White Welsh  
WWEU = White Western European

Transformations:

recode KS4\_ETHNIC ... into KS4\_Ethnic\_gp

('AMPK' = 1) ('CMAL' = 1) ('MWAI' = 3) ('ANEP' = 1) ('WOTW' = 4)  
('AOPK' = 1) ('COCH' = 1) ('MWAP' = 3) ('MWAO' = 3) ('WOWB' = 4)  
('AOTA' = 1) ('CSNG' = 1) ('MWAS' = 3) ('OMRC' = 5) ('WPOR' = 4)  
('AOTH' = 1) ('CTWN' = 1) ('MWBA' = 3) ('OOEG' = 5) ('WROM' = 4)  
('APKN' = 1) ('MABL' = 3) ('MWBC' = 3) ('OOTH' = 5) ('WSCO' = 4)  
('ASLT' = 1) ('MACH' = 3) ('MWCH' = 3) ('OPOL' = 5) ('WSER' = 4)  
('ASNL' = 1) ('MAOE' = 3) ('MWOE' = 3) ('OTHA' = 5) ('WTUC' = 4)  
('ASRO' = 1) ('MBCH' = 3) ('NOBT' = 5) ('OVIE' = 5) ('WTUK' = 4)  
('BAFR' = 2) ('MBOE' = 3) ('OAFG' = 5) ('REFU' = 5) ('WTUR' = 4)  
('BANN' = 2) ('MCOE' = 3) ('OARA' = 5) ('WALB' = 4) ('WWEL' = 4)  
('BAOF' = 2) ('MOTH' = 3) ('OEGY' = 5) ('WBRI' = 4) ('WWEU' = 4)  
('BCON' = 2) ('MOTM' = 3) ('OFIL' = 5) ('WCOR' = 4) ('OYEM' = 5)  
('BCRB' = 2) ('MWAI' = 3) ('OIRN' = 5) ('WCRO' = 4) ('MWAO' = 3)  
('BEUR' = 2) ('MWAP' = 3) ('OIRQ' = 5) ('WEEU' = 4)  
('BGHA' = 2) ('MWAS' = 3) ('OJPN' = 5) ('WENG' = 4)  
('BNAM' = 2) ('MWBA' = 3) ('OKOR' = 5) ('WEUR' = 4)  
('BNGN' = 2) ('MWBC' = 3) ('OKRD' = 5) ('WGRC' = 4)  
('BOTB' = 2) ('MWCH' = 3) ('OLAM' = 5) ('WGRE' = 4)

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('BOTH' = 2) ('MWOE' = 3) ('OLEB' = 5) ('WGRK' = 4)  
('BSLN' = 2) ('NOBT' = 5) ('OLIB' = 5) ('WIRI' = 4)  
('BSOM' = 2) ('OAFG' = 5) ('OMAL' = 5) ('WIRT' = 4)  
(else = 9)

Analytic variables:

KS4\_Ethnic\_gp

1 = Asian  
2 = Black  
3 = Mixed  
4 = White  
5 = Other  
9 = Missing

**English is an additional language' (EV3)**

Variables used:

KS4\_FLANG (NPD)

Transformations:

None

Analytic variables:

KS4\_FLANG (English is an additional language)

0 = No  
1 = Yes

...alternatively labeled and coded as: English is first language

0 = No  
1 = Yes

**Ever Eligible for Free School Meals last 6 years at KS4 (EV4)**

Variables used:

KS4\_FSM6

Transformations:

None



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Analytic variables:

KS4\_FSM6 (Ever eligible for free school meals in the last six years, as of KS4 census day; aka, 'FSM eligibility', 'FSM eligibility at KS4', and 'FSM eligibility in last 6 years at KS4')

0 = No

1 = Yes

### **Income Deprivation Affecting Children Index (IDACI) for their Home Address (EV6)**

Variables used:

KS4\_IDACI

Transformations:

None

Analytic variables:

KS4\_IDACI (Income deprivation affecting children index score)

### **IDACI Groups (EV7)**

Variables used:

KS4\_IDACI

Transformations:

Quintiles

Rank Variables= KS4\_IDACI (A)

/Ntiles(5)

Rename NKS4\_ID= IDACI\_Q5

recode IDACI\_Q5 (1=1) (2 thru 4=2) (5=3) into IDACIgp

Analytic variables:

KS4\_IDACI (continuous; aka, IDACI KS4)

IDACI\_Q5 (Quintiles of IDACI KS4; aka, 'IDACI Quintiles')

IDACIgp (Income deprivation affecting children index score, grouped)

1 = Bottom 20%

2 = Middle 60%

## Type of Placement—Last Care Placement (EV8)

### Variables used:

#### Placement (CLA)

Q1 = Foster placement with relative or friend (up to 2014)

Q2 = Placement with other foster carer (up to 2014)

A3 = Placed for adoption with parental/guardian consent with current foster carer(s) or with a freeing order where parental/guardian consent has been given

A4 = Placed for adoption with parental/guardian consent not with current foster carer(s) or with a freeing order where parental/guardian consent has been given

A5 = Placed for adoption with placement order with current foster carer(s) or with a freeing order where parental/guardian consent was dispensed with

A6 = Placed for adoption with placement order not with current foster carer(s) or with a freeing order where parental/guardian consent was dispensed with

P1 = Placed with own parents or other person with parental responsibility

P2 = Independent living

P3 = Residential employment

K1 = Placed in secure unit or secure children's home

K2 = Placed in homes and hostels subject to Children's Homes Regulations or children's homes subject to Children's Homes Regulations

H5 = Placed in residential accommodation or semi-independent living accommodation not subject to children's homes regulations

R1 = Residential care home

R2 = NHS/health trust or other establishment providing medical or nursing care

R3 = Family centre or mother-and-baby unit

R5 = Young offender institution or prison

S1 = All residential schools, except where dual-registered as a school and children's home

T0 = All types of temporary move

T1 = Temporary period in hospital

T2 = Temporary absence of the child on holiday

T3 = Temporary accommodation while normal foster carer(s) is/are on holiday

T4 = Temporary accommodation of seven days or less, for any reason, not covered by codes T1 to T3

### Transformations:

recode PLACEMENT ... into PlaceT

('A1' = 1) ('A2' = 1) ('A3' = 1) ('A4' = 1) ('A5' = 1) ('A6' = 1) ('F1' = 2) ('F2' = 2) ('F3' = 2) ('F4' = 2) ('F5' = 2)

('F6' = 2) ('Q2' = 2) ('H3' = 3) ('H4' = 3) ('H5' = 3) ('K1' = 4) ('K2' = 4)

('M1' = 5) ('M2' = 5) ('M3' = 5) ('P1' = 6) ('P2' = 6) ('P3' = 6) ('R1' = 7) ('R2' = 7) ('R3' = 7) ('R4' = 7) ('R5' = 7) ('U1' = 8) ('U2' = 8) ('U3' = 8) ('U4' = 8) ('U5' = 8) ('O6' = 8) ('Q1' = 8) ('S1' = 9) ('Z1' = 10)

compute PlaceTl = (Last placement type when aggregated across years 2004 to 2017)

### Analytic variables:

PlaceTl (Last care placement type)

- 1 = Adoption
- 2 = Foster with foster carer
- 3 = Semi-independent
- 4 = Childrens home
- 5 = Refuge
- 6 = Independent
- 7 = Residential
- 8 = Foster with friends or relatives
- 9 = Residential school
- 10 = Other

### Placement type (Foster and Residential) (EV9)

#### Variables used:

PlaceT

#### Transformations:

recode PlaceT (2,8=1) (4,7=2) (else=3) into PlaceTgp.

- 1 = Foster care
- 2 = Residential care
- 3 = Other placement

casestovars /id=PMR.

compute CLA\_Foster= any(1, PlaceT.n to PlaceT.n).

compute CLA\_Residential= any(2, PlaceT.n to PlaceT.n).

compute CLA\_Other= any(3, PlaceT.n to PlaceT.n).

compute CLA\_Placegp=3

if CLA\_Foster=1 and CLA\_Residential=0 and CLA\_Other=0 CLA\_Placegp=1.

if Residential1=1 and Foster=0 and CLA\_Other=0 CLA\_Placegp=2.

- 1 = Foster care (any)
- 2 = Residential care (any)
- 3 = Mixed

compute CLA\_PlaceTgp=3.

if CLA\_Foster=1 and CLA\_Residential=0 and CLA\_Other=0 CLA\_PlaceTgp=1.

if CLA\_Residential=1 and CLA\_Foster=0 and CLA\_Other=0 CLA\_PlaceTgp=2.

- 1 = Foster care (only)

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2 = Residential care (only)

3 = Mixed

Analytic variables:

CLA\_Placegp (Any Foster or Residential care placement; aka, Placement type (any))

1 = Foster care (any)

2 = Residential care (any)

3 = Mixed

CLA\_PlaceTgp (Only Foster or Residential care placement; aka, Placement type (only))

1 = Foster care (only)

2 = Residential care (only)

3 = Mixed

### Number of Placement Type Changes (EV10)

Variables used:

REASON\_FOR\_PLACEMENT\_CHANGE

Transformations:

Create lag id = LAG(ID, 1).

Create lag pl = LAG(Placement, 1).

compute NOP=1.

if (ID=lac\_id & lag pl=Placement) NOP=0.

Analytic variable:

NOP (number of placement type changes)

1

2

3+

### Duration in Care (EV11)

Variables used:

POC\_LENGTH

Transformations:

recode POC\_LENGTH (Length of period of care – i.e. first to last placement) into CLA\_CareL

recode CLA\_CareL (1 thru 180=1) (181 thru 730=2) (731 thru 1825=3) (1826 thru hi=4) into CLA\_CareLgp.

Analytic variables:

CLA\_CareL (Total length of care - days)

CLA\_CareLgp (Total length of care – group; aka, Total length of care)

1 = 6 months

2 = 6 months-2 years

3 = 2-5 years

4 = 5 years+

### **Continuous Care (EV12)**

Variables used:

CLA\_12\_MONTHS

Transformations:

Aggregate /break PMR /CLA\_12mCont=sum(CLA\_12\_MONTHS)

recode CLA\_12mCont (0=0) (1=1) (2 thru 4=2) (5 thru 9=3) (10 thru 12=4) into CLA\_Cont\_gp

Analytic variables:

CLA\_Cont\_gp (Continuous care length)

0 = Less than a year

1 = 1 Year

2 = 2 to 4 years

3 = 5 to 9 years

4 = 10 years+

### **Primary Need CLA (EV13)**

Variables used:

CLA\_PrimaryNeedCode (The main need for care episode)

N1 = Abuse or neglect

N2 = Child's disability or illness

N3 = Parental disability or illness

N4 = Family in acute stress

N5 = Family dysfunction

N6 = Socially unacceptable

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N7 = Low income

N8 = Absent parenting

N9 = Cases other than Children in Need

N0 = Not stated

Transformations:

recode CLA\_PrimaryNeedCode ('N1' = 1) ('N2' = 2) ('N3' = 3) ('N4' = 4) ('N5' = 5) ('N6' = 6) ('N7' = 7) ('N8' = 8) ('N9' = 9) ('N0' = -9) into CiN\_Need (First recorded at entry)

recode (1 = 1) (4,5 = 2) (2,3=3) (6 thur 9=3) into PNeed\_CLA (Primary need grouped)

Analytic variables:

CLA\_Need (Primary Need at first episode; Category of need)

1 = Abuse or neglect

2 = Child's disability or illness

3 = Parental disability or illness

4 = Family in acute stress

5 = Family dysfunction

6 = Socially unacceptable

7 = Low income

8 = Absent parenting

9 = Cases other than Children in Need

-9 = N/A

PNeed\_CLA (Primary need abuse or neglect)

1 = Abuse or neglect

2 = Family stress or dysfunction

3 = Other need

## **Distance from Home (EV14)**

Variables used:

Home\_Place\_Dist

Transformations:

recode CLA\_Home\_Place\_Dist (0 thru 2=1) (2.1 thru 5=2) (5.1 thru 10=3) (10.1 thru 25=4) (25.1 thru hi=5) into CLA Placedist gp.

value labels CLA\_Placedist\_gp-9 'Missing' 1 '0-2 miles' 2 '2-5' 3 '5-10' 4 '10-25' 5 '25 miles+'.

Analytic variables:

Home\_Place\_Dist (Placement distance from home)

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CLA\_Placedist\_gp (Placement distance from home grouped)

-9 = missing  
1 = 0-2 miles  
2 = 2-5 miles  
3 = 5-10 miles  
4 = 10-25 miles  
5 = 25 miles+

## Local Authority Placement (EV15)

Variables used:

LA\_PLACEMENT\_EPI (Local authority where placement is located)

Transformations:

```
recode LA_PLACEMENT_EPI (SYSMIS = -9) (else = copy) into LA_Place  
compute LA_IN = 0  
if LA_IN = LA_Place  
compute LA_IN = 1  
if LA_Place = (-9) LA_IN = (-9)
```

Analytic variable:

LA\_IN (Care placement is in local authority; aka, Placement in local authority)  
1 = Yes  
0 = No  
-9 = Missing

## Care Entry Age (EV16)

Variables used:

CLA\_POC\_START (renamed CLA\_P\_start, Date of first care episode)

Transformations:

```
compute CLA_fe_secondary = 0.  
if (CLA_P_start GE date.dmy(01, 09, 2010)) CLA_fe_secondary = 1.  
if (CLA_P_start GT date.dmy(31, 08, 2015)) CLA_fe_secondary = 0.
```

numeric CLA\_Agegp

```
if range(CLA_P_start GE date.dmy(01, 09, 1998), date.dmy((11, 08, 2003)))  
CLA_Agegp=1
```

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if range(CLA\_P\_start GE date.dmy(01, 09, 2003), date.dmy((11, 08, 2008)))

CLA\_Agegp=2

if range(CLA\_P\_start GE date.dmy(01, 09, 2009), date.dmy((11, 08, 2011)))

CLA\_Agegp=3

if range(CLA\_P\_start GE date.dmy(01, 09, 2011), date.dmy((11, 08, 2014)))

CLA\_Agegp=4

if (CLA\_P\_start GT date.dmy(01, 09, 2014)) CLA\_Agegp=5

Analytic variables:

CLA\_fe\_secondary (Entered care during secondary school)

1 = Yes

0 = No

CLA\_Agegp (Age at care entry - 'CLA age at entry')

1 = 0-4

2 = 5-9

3 = 10-12

4 = 13-15

5 = 16+

**CIN Age at Referral (EV17)**

Variables used:

CIN\_AgeStart (Date first referral)

Transformations:

recode CIN\_AgeStart (0 thru 10=1) (11 thru 13=2) (14 thru hi=3) (else=-9) into CIN\_Agegp

Analytic variable:

CIN\_Agegp (CIN Age at Entry)

1 = Under 11

2 = 11 to 13 years

3 = 14+



## Primary Need CIN (EV18)

### Variables used:

CIN\_PrimaryNeedCode (The main need for CIN referral)

- N1 = Abuse or neglect
- N2 = Child's disability or illness
- N3 = Parental disability or illness
- N4 = Family in acute stress
- N5 = Family dysfunction
- N6 = Socially unacceptable
- N7 = Low income
- N8 = Absent parenting
- N9 = Cases other than Children in Need
- N0 = Not stated

### Transformations:

recode CIN\_PrimaryNeedCode ('N1' = 1) ('N2' = 2) ('N3' = 3) ('N4' = 4) ('N5' = 5) ('N6' = 6) ('N7' = 7) ('N8' = 8) ('N9' = 9) ('N0' = -9) into CiN\_Need (First recorded at entry)

recode (1 = 1) (4,5 = 2) (2,3=3) (6 thur 10=3) into PNeed\_CIN (Primary need grouped)

### Analytic variables:

CIN\_Need (Primary Need at Entry)

- 1 = Abuse or neglect
- 2 = Child's disability or illness
- 3 = Parental disability or illness
- 4 = Family in acute stress
- 5 = Family dysfunction
- 6 = Socially unacceptable
- 7 = Low income
- 8 = Absent parenting
- 9 = Cases other than Children in Need (aka, Other)
- 10 = Not stated

PNeed\_CIN (Primary need abuse or neglect)

- 1 = Abuse or neglect
- 2 = Family stress or dysfunction
- 3 = Other need

## Assessment Factors (EV19)

### Variables used:

CIN\_AssessmentFactors (Factots identified at the end of assessment)

- 4A 'Mental health: concerns about the mental health of the child'

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Transformations:

compute CIN\_CMH=0.

if CIN\_AssessmentFactors='4A' CIN\_CMH=1.

Analytic variable:

CIN\_CMH (Child mental health concerns)

1 = Yes

0 = No

### **Special Educational Needs at KS4 - Stage (EV20)**

Variables used:

KS4\_SENF (NPD)

N = 1 No special educational need

A = 2 School Action or Early Years Action

P = 3 School Action Plus or Early Years Action Plus

S = 4 Statement

K = 5 SEN support

Transformations:

recode KS4\_SENF ... into KS4\_SENstage  
(i.e. convert string to numeric)

Analytic variables:

KS4\_SENstage (SEN stage)

1 = No Special Educational Need

2 = School Action or Early Years Action

3 = School Action Plus or Early Years Action Plus

4 = Statement

5 = SEN support (since 2014/15)

6 = Education, Health and Care Plan

99 = Missing

### **Special Educational Needs at KS4 - Type (EV21)**

Variables used:

KS4\_SENTYPE (NPD)

SPLD = 1 Speech, language and communication needs

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ASD = 2 Autistic spectrum disorder  
SLD = 3 Specific learning difficulty  
MLD = 4 Moderate learning difficulty  
SLD = 5 Severe learning difficulty  
PMLD = 6 Profound and multiple learning difficulty  
SEMH = 7 Social, emotional and mental health difficulties  
HI = 8 Hearing impairment  
VI = 9 Visual impairment  
MSI = 10 Multisensory impairment  
PD = 11 Physical disability  
NSA = 12 No specialist assessment  
OTH = 13 Other need

Transformations:

recode KS4\_SENTYPE ... into SEN\_Type (i.e. convert string to numeric)

recode SEN\_Type (1,2=1) (3 thru 6=2) (7=3) (8 thru 11=4) (12,13=5) into SEN\_Type\_gp.

Analytic variables:

SEN\_Type (SEN type)

1 = Speech, Language and Communication Needs  
2 = Autistic Spectrum Disorder  
3 = Specific Learning Difficulty  
4 = Moderate Learning Difficulty  
5 = Severe Learning Difficulty  
6 = Profound and Multiple Learning Difficulty  
7 = Social, Emotional and Mental Health Difficulty  
8 = Hearing Impairment  
9 = Visual Impairment  
10 = Multisensory Impairment  
11 = Physical Disability  
12 = No specialist assessment  
13 = Other need

SEN\_Type\_gp (SEN type grouped; aka, SEN Primary Need)

1 = Communication and Interaction  
2 = Cognition and Learning  
3 = Social, Emotional and Mental Health  
4 = Sensory and/or Physical Needs  
5 = Other need / no assessment

## Special Educational Needs at KS4 - Statement (EV22)

### Variables used:

KS4\_SENK (Does pupil have SEN support)

0 = No

1 = Yes

KS4\_SENE (Does pupil have EHC plan)

0 = No

1 = Yes

KS4\_SENSE (SEN with statement or EHC plan)

0 = No

1 = Yes

KS4\_SENAPK (SEN without statement or EHC plan)

0 = No

1 = Yes

KS4\_SENPS (Does pupil have SEN - Action Plus or Statement?)

0 = No

1 = Yes

KS4\_SENA (Does pupil have SEN - school action?)

0 = No

1 = Yes

### Transformations:

compute SEN=0

if KS4\_SENSE=1 SEN=1.

If KS4\_SENAPK=1 SEN=2.

compute SEN\_SAP=0.

if KS4\_SENA=1 SEN\_SAP=1.

if KS4\_SENK=1 SEN\_SAP=1.

if KS4\_SENPS=1 SEN\_SAP=2.

if KS4\_SENE=1 SEN\_SAP=2.

if KS4\_SENSE=1 SEN\_SAP=2.

### Analytic variables:

SEN (SEN Status at KS4)

0 = No identified SEN (No SEN)

1 = SEN with Statement or EHC Plan (Statement / EHC plan)

2 = SEN No Statement or EHC Plan (SEN Support (no Statement))

### SEN (SEN Status at KS4 – binary, aka SEN Status - binary)

0 = No identified SEN (No SEN)

1 = SEN with or without Statement or EHC Plan (Statement / EHC plan)

### SEN\_SAP (SEN-School Action, School Action Plus)

0 = No identified SEN

1 = School Action

2 = School Action Plus or Statement

## Attainment at KS2 (EV23)

### Variables used:

KS2\_TOTPTS

### Transformations:

None

### Analytic variables:

KS2\_TOTPTS (Total KS2 points used in the valued-added calculations; aka, Total KS2 points score)

## Attainment at KS4 - Total GCSE (EV24)

### Variables used:

KS4\_PTSTNEWE

### Transformations:

None

### Analytic variables:

KS4\_PTSTNEWE (Total GCSE and equivalents new style point score; aka, Total KS4 points score and Total KS4 points score GCSE and equivalent)

## **Attainment at KS4 – five or more A\*–C or 4–9 grades including English and Maths (EV25)**

### Variables used:

KS4\_GLEVEL2EM\_PTQ\_EE (Five or more A\*–C or 4–9 grades including English and Maths)

0 = No

1 = Yes

KS4\_EXAMCAT (Highest examination category achieved at GCSE and equivalent)

### Transformations:

None

### Analytic variables:

KS4\_GLEVEL2EM\_PTQ\_EE (Five or more A\*–C or 4–9 grades including English and Maths; aka, Five A\*–C/9–4 (or equiv.) and Five A\*–C including English and Maths)

0 = No

1 = Yes

KS4\_EXAMCAT (Highest examination category achieved at GCSE and equivalent)

1. 5+A\*-C inc English & Maths

2. 5+A\*-C

3. 5+A\*-G

4. 1+A\*-G

5. Achieved any pass

6. No passes

7. No result

## **History of School Exclusion (EV26)**

### Variables used:

Sessions\_ex[yy] (Number of KS4 sessions excluded from [yy])

Category\_ex[yy] = 'Type of exclusion'

FIXD = Fixed Period

PERM = Permanent

LNCH = Lunchtime

### Transformations:

recode Category\_ex[yy] (FIXD = 1) (PERM = 2) (LNCH = 3) into Cate\_exc1[yy]

if Cate\_exc1[yy] = 1 Fixed [yy] = 1

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if Cate\_exc1[yy] = 2 Perm [yy] = 1

if Cate\_exc1[yy] = 3 Lunch [yy] = 1

SessExclTotal = sum(Sessions\_ex11, Sessions\_ex12, Sessions\_ex13, Sessions\_ex14,  
Sessions\_ex15)

FixedExclTotal = sum(Fixed\_2011, Fixed\_2012, Fixed\_2013, Fixed\_2014, Fixed\_2015)

PermExclTotal = sum(Perm\_2011, Perm\_2012, Perm\_2013, Perm\_2014, Perm\_2015)

recode FixedExclTotal (0=0) (1 thru hi=1) into FixedExcl

recode FixedExclTotal (0=0) (1=1) (2=2) (3 thru 5=3) (6 thru 9=4) (10 thru hi=5) into FixdExcl\_gp

0 = No fixed exclusions

1 = 1

2 = 2

3 = 3 to 5

4 = 6 to 9

5 = 10+ fixed exclusions

compute KS4\_Pexcl=0.

if Perm\_2014>0 or Perm\_2015>0 KS4\_Pexcl=1.

Analytic variables:

SessExclTotal (Total number of KS4 session exclusions)

FixedExclTotal (Total number of KS4 fixed-period exclusions)

PermExclTotal (Total number of KS4 permanent exclusions)

FixdExcl\_gp (Fixed exclusions grouped (2011–15))

0 = No fixed exclusions

1 = 1

2 = 2

3 = 3 to 5

4 = 6 to 9

5 = 10+ fixed exclusions

FixedExcl (Any fixed exclusion)

0 = No

1 = Yes

KS4\_Pexcl (Permanently excluded at KS4; aka, Permanent Exclusion (2011-2015))

0 = No

1 = Yes

## History of Persistent Absence (EV27)

### Variables used:

SessionsPossible\_Spring\_ab[yy] (NPD)

SessionsPossible\_Autumn\_ab[yy]

SessionsPossible\_Summer\_ab[yy]

AuthorisedAbsence\_Spring\_ab[yy]

AuthorisedAbsence\_Autumn\_ab[yy]

AuthorisedAbsence\_Summer\_ab[yy]

UnauthorisedAbsence\_Spring\_ab[yy]

UnauthorisedAbsence\_Autumn\_ab[yy]

UnauthorisedAbsence\_Summer\_ab[yy]

OverallAbsence\_Spring\_ab[yy]

OverallAbsence\_Autumn\_ab[yy]

OverallAbsence\_Summer\_ab[yy]

### Transformations:

Ab\_Poss3T\_[yy] = sum (SessionsPossible\_Spring\_ab[yy], SessionsPossible\_Autumn\_ab[yy], SessionsPossible\_Summer\_ab[yy])

AuthAb3T\_[yy] = sum(AuthorisedAbsence\_Spring\_ab[yy], AuthorisedAbsence\_Autumn\_ab[yy], AuthorisedAbsence\_Summer\_ab[yy])

UnauthAb3T\_[yy] = sum(UnauthorisedAbsence\_Spring\_ab[yy], UnauthorisedAbsence\_Autumn\_ab[yy], UnauthorisedAbsence\_Summer\_ab[yy])

TotalAb3T\_[yy] = sum(OverallAbsence\_Spring\_ab[yy], OverallAbsence\_Autumn\_ab[yy], OverallAbsence\_Summer\_ab[yy])

PossAbsTotal = sum(Ab\_Poss3T\_2011, Ab\_Poss3T\_2012, Ab\_Poss3T\_2013, Ab\_Poss3T\_2014, Ab\_Poss3T\_2015)

AuthAbTotal = sum(AuthAb3T\_2011, AuthAb3T\_2012, AuthAb3T\_2013, AuthAb3T\_2014, AuthAb3T\_2015)

UnAuthTotal = sum(UnauthAb3T\_2011, UnauthAb3T\_2012, UnauthAb3T\_2013, UnauthAb3T\_2014, UnauthAb3T\_2015)

Total\_Absence = sum (TotalAb3T\_2011, TotalAb3T\_2012, TotalAb3T\_2013, TotalAb3T\_2014, TotalAb3T\_2015)

Auth\_Rate (AuthAbTotal/PossAbsTotal) \* 100

UnAuth\_Rate (UnAuthTotal/PossAbsTotal) \* 100

TotalAb\_Rate (Total\_Absence/PossAbsTotal) \* 100

rank variables=TotalAb\_Rate/ntiles(5)



compute AbRate\_2014=(TotalAb3T\_2014/Ah\_Poss3T\_2014)\*100.

compute AbRate\_2015=(TotalAb3T\_2015/Ab\_Poss3T\_2015)\*100.

if AbRate\_2014 ge 10 PAbs2014=1.

compute PAbs2015=0.

if AbRate\_2015 ge 10 PAbs2015=1.

compute KS4\_PAbs=0.

if PAbs2014=1 or PAbs2015=1 KS4\_PAbs=1.

#### Analytic variables:

Auth\_Rate (Rate of authorised KS4 absences)

UnAuth\_Rate (Rate of unauthorised KS4 absences)

TotalAb\_Rate (Rate of total KS4 absences)

TotalAb\_Rate\_Q5 (Total Absence Rate Quintiles)

KS4\_PAbs (Persistent Absentee at KS4; aka, Persistent Absentee)

0 = No

1 = Yes

### **History of Alternative Provision (EV28)**

#### Variables used:

AP\_APTypeDescription

HSP = Hospital school

IND = Independent school

NMS = Non-maintained school

NOT = Not a school

AP\_Year

#### Transformations:

recode AP\_APTypeDescription ('ACD' = 1) ('HSP' = 2) ('IND' = 3) ('NMS' = 4) ('NOT' = 5) into APType

APtype

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- 1 = Academy
- 2 = Hospital school
- 3 = Independent school
- 4 = Non-maintained school
- 5 = Not a school

if AP\_Year [yy], APtype\_[yy] = APtype

APtype<sub>l</sub> (Latest AP provided – when aggregated)

if any APtype, AP\_ever = 1 else 0 (Received some form of alternative provision 2011–2015)

count AP\_yr = APtype\_2011 APtype\_2012 APtype\_2013 APtype\_2014 to APtype\_2015 (Total number of years spent in alternative provision)

Analytic variables:

AP\_yr (Years in alternative provision)

AP\_ever (Ever in alternative provision, 2011–2015)

- 1 = Yes
- 0 = No

### **School Changes at KS4 (EV29)**

Variables used:

KS4\_NEWMOBILE

Transformations:

None

Analytic variable:

KS4\_NEWMOBILE (Joined the school in the last two academic years)

- 1 = Yes
- 0 = No

### **Attended Mainstream School at KS4 (EV30)**

Variables used:

KS4\_NEWER\_TYPE (renamed KS4\_SchType; School type alternative breakdown)

- 1=Comprehensive
- 2=Selective
- 3=Modern

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4=Not ADMPOL

5=Maintained special

6=Hospitals and PRUs

7=Non-maintained/Independent special schools

8=Independent schools

Transformations:

recode KS4\_SchType (1 thru 3=1) (4 thru 7=0) (8=1) into KS4\_mainstream.

Analytic variable:

KS4\_mainstream (Attended a mainstream school at KS4)

1 = Yes

0 = No

**Ever permanently excluded or in PRU/AP at KS4 (EV31)**

Variables used:

Perm\_2014

Perm\_2015

UnitContactTime SPR14 - renamed PRU\_Cont\_2014

UnitContactTime SPR15 - renamed PRU\_Cont\_2015

APtype\_2014

APtype\_2015

Transformations:

compute KS4\_Pexcl=0.

if Perm\_2014>0 or Perm\_2015>0 KS4\_Pexcl=1.

compute KS4\_PRU=0.

if PRU\_Cont\_2014>0 or PRU\_Cont\_2015>0 KS4 PRU=1.

compute KS4\_AP=0.

if APtype\_2014>0 or APtype\_2015>0 KS4\_AP=1.

compute PexclAP\_PRU=0.

if KS4\_AP=1 or KS4\_PRU=1 or KS4\_Pexcl=1 PexclAP\_PRU=1.

Analytic variable:

PexclAP\_PRU (Ever permanently excluded or in PRU/AP at KS4)

1 = Yes

0 = No

## Post-16 Qualifications (EV32)

### Variables used:

KS4\_LEVEL2\_PTQ\_EE  
KS5\_L3\_flag  
KS5\_L2\_flag  
ILA\_Compl\_16 to ILA\_Compl\_21  
NVQ2\_2016 to NVQ2\_2021  
KS5\_PL3\_17

### Transformations:

compute L1=0 .

if range(NVQ2\_2016,0,1) L1=1

if range(NVQ2\_2017,0,1) L1=1

if range(NVQ2\_2018,0,1) L1=1

if range(NVQ2\_2019,0,1) L1=1

if range(NVQ2\_2020,0,1) L1=1

if range(NVQ2\_2021,0,1) L1=1

compute ILR\_L318 = 0

if NVQ2\_2016=3 and ILA\_Compl\_16=2 ILR\_L318 = 1

if NVQ2\_2017=3 and ILA\_Compl\_17=2 ILR\_L318 = 1

compute ILR\_L322=0.

if NVQ2\_2018=3 and ILA\_Compl\_18=2 ILR\_L322= 1

if NVQ2\_2019=3 and ILA\_Compl\_19=2 ILR\_L322= 1

if NVQ2\_2020=3 and ILA\_Compl\_20=2 ILR\_L322= 1

if NVQ2\_2021=3 and ILA\_Compl\_21=2 ILR\_L322= 1

compute ILR\_L2\_22=0.

if NVQ2\_2016=2 and ILA\_Compl\_16=2 ILR\_L2\_22=1

if NVQ2\_2017=2 and ILA\_Compl\_17=2 ILR\_L2\_22= 1

if NVQ2\_2018=2 and ILA\_Compl\_18=2 ILR\_L2\_22=1

if NVQ2\_2019=2 and ILA\_Compl\_19=2 ILR\_L2\_22=1

if NVQ2\_2020=2 and ILA\_Compl\_20=2 ILR\_L2\_22=1

if NVQ2\_2021=2 and ILA\_Compl\_21=2 ILR\_L2\_22=1

compute L2\_Total=0.

if ILR\_L222=1 or KS5\_L2\_FLAG=1 L2\_Total=1.

if KS4\_LEVEL2\_PTQ\_EE=1 L2\_Total=1.

compute L3\_Total=0.

if ILR\_L322=1 or ILR\_L318=1 or KS5\_L3\_flag=1 L3\_Total=1.

compute L3\_18t=0

if KS5\_PL3=1 or ILR\_L318=1 L3\_18t=1

compute P16\_1=0

if KS4\_LEVEL2\_PTQ\_EE=1 and L3a\_Total=1 P16\_1=1

compute P16\_2=1

if L2\_Total=1 or L3\_Total=1 P16\_2=0

compute P16\_3=0

if L2\_Total=1 and L3\_Total=1 P16\_3=1

if KS4\_LEVEL2\_PTQ\_EE=1 P16\_3=0

compute P16\_4=0

if L2\_Total=1 and L3\_Total=0 P16\_4=1

if KS4\_LEVEL2\_PTQ\_EE=1 P16\_4=0

compute P16\_5=0

if KS4\_LEVEL2\_PTQ\_EE=1 and L3\_Total=0 P16\_5=1

if L3\_18t=1 P16\_5=0

numeric Post16\_qual

if P16\_1 Post16\_qual=1

if P16\_2 Post16\_qual=2

if P16\_3 Post16\_qual=3

if P16\_4 Post16\_qual=4

if P16\_5 Post16\_qual=5

Analytic variables:

Post16\_qual

1 = L2 at 16, L3 at 18

2 = No L2 or L3

3 = L2 after 16, L3 before 22

4 = L2 after 16, no L3

5 = L2 at 16, no L3

L1 (FE Study at L1 or lower)

1 = Yes

0 = No

## IV. Educational Pathway Status Variables: Qualifications and Registrations (Ages 16–22)

The following categorical variables are specific to each of the five 'waves' of educational data used to construct the educational pathway variables described in Section V. They denote the qualifications young people completed at secondary education, FE and HE and the registrations (e.g., enrolment for a Level 4 qualification) in place at the start of FE and HE. Together, they will be used to examine the 'pathways used by young people ... as a unit of analysis ... [to] explore the relationship between the groups of interest and their sequential pathways (a) through post-16 education, (b) into higher education and (c) through higher education' (from p. 3 of the protocol; Tah & Feinstein, 2023).

Following is a summary of the variables used to define 'pathways to and through HE', arranged as a series of five waves, from the end of KS4 to the end of HE:

- Wave 2: Qualification at the end of KS4 (around age 16)
- Wave 3: Registration at the start of FE (around age 17)
- Wave 4: Qualification at the end of FE (around age 18)
- Wave 5: Registration at the start of HE (around age 19)
- Wave 6: Qualification at the end of HE (around age 22)

### Wave 2: Qualification at the End of KS4 (about age 16)

#### Variables used:

##### KS4\_EXAMCAT\_PTQ\_EE

1 = Five or more A\*–C or 9–4 GCSEs or equivalents, including English and Maths GCSEs

2 = Five or more A\*–C or 9–4 GCSEs or equivalents

3 = One or more A\*–G or 9–1 GCSEs or equivalents

4 = Gained one or more passes in KS4 performance tables qualifications

5 = No passes in KS4 performance tables qualifications

6 = Entries in KS4 non-performance tables qualifications only

7 = No results

#### Transformations:

recode KS4\_EXAMCAT\_PTQ\_EE

(1 = 1) (2 = 2) (3 thru 4 = 3) (5 thru 7 = 4) into Wave2

#### Analytic variable:

Wave2 (Qualification at the End of KS4)

1 = GCSE-High (Five or more A\*–C or 4–9 grades including English and Maths; aka, 5+ A\*–C grades inc EM)

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2 = GCSE-Med (Five or more A\*–C or 4–9 grades; aka, 5+ A\*–C grades)

3 = GCSE-Low (One or more A\*–G grades or 9–1 grades for GCSEs or equivalents; aka, 1+ A-G)

4 = GCSE-None (No qualification; aka, None)

Wave2b (Qualification at the End of KS4; aka, KS4 grades)

1 = GCSE-High (Five or more A\*–C or 4–9 grades including English and Maths; aka, 5 A–C inc EM)

2 = GCSE-Med (Five or more A\*–C or 4–9 grades; aka, 5 GCSEs)

3 = GCSE-Low/None (One or more A\*–G grades, 9–1 grades for GCSEs or equivalents, or No qualification; aka, Low/No grades)

### **Wave 3: Registration at the Start of Further Education (about age 17)**

#### Variables used:

ILA\_D\_GCSE (GCSE, 2016–2021)

1 = Yes

2 = No

ILA\_D\_GCE (A-level, 2016–2021)

1 = Yes

2 = No

KS5\_AGEN (Applied general, 2016–2018)

1 = Yes

2 = No

KS5\_TLEV (Tech level, 2016–2018)

1 = Yes

2 = No

KS5\_Alev (A-level, 2016–2018)

1 = Yes

2 = No

ILA\_D\_NOTIONLEV2 (NVQ2, 2016–2021)

-1 = Missing (not applicable/not known)

0 = Entry

1 = Level 1

2 = Level 2

3 = Level 3

4 = Level 4

5 = Level 5

6 = Level 6

7 = Level 7 or higher

9 = Other

ILA\_PROGTYPE (2016–2021)

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-1 = Missing (not applicable/not known)  
2 = Advanced apprenticeship  
3 = Apprenticeship  
20 = Higher apprenticeship – Level 4  
21 = Higher apprenticeship – Level 5  
22 = Higher apprenticeship – Level 6  
23 = Higher apprenticeship – Level 7+  
24 = Traineeships  
25 = Apprenticeship standard

Transformations:

```
recode ILA_D_GCSE into ILA_D_GCSE_[yy]
recode ILA_D_GCE into ILA_D_GCE_[yy]
recode KS5_AGEN into KS5_AGen_[yy]
recode KS5_TLEV into KS5_TLev_[yy]
recode KS5_Alev into KS5_Alevel[yy]
recode ILA_D_NOTIONLEV2 into NVQ2_[yy]
recode ILA_PROGTYPE into ILA_Apptshp[yy]
recode KS5_BOARDNO (110, 111 = 1) (else = 0) into KS5_Alev15
```

```
numeric KS5_Qual_16 to KS5_Qual_18.
if KS5_AGen_16=1 or KS5_TLev_16=1 KS5_Qual_16=2.
if KS5_Alevel15=1 KS5_Qual_16=1.
if KS5_AGen_17=1 or KS5_TLev_17=1 KS5_Qual_17=2.
if KS5_Alevel16=1 KS5_Qual_17=1.
if KS5_AGen_18=1 or KS5_TLev_18=1 KS5_Qual_18=2.
if KS5_Alevel17=1 KS5_Qual_18=1.
```

```
value labels KS5_Qual_16 to KS5_Qual_18.
1=A-levels
2=Vocational.
```

```
numeric ILR_Qual_16 to ILR_Qual_21.
if not(miss(NVQ2_2016)) ILR_Qual_16=2.
if ILA_D_GCE_16=1 ILR_Qual_16=2.
if ILA_D_GCSE_16=1 ILR_Qual_16=3.
if ILA_Apptshp_16>0 ILR_Qual_16=4.
(repeat for all years 2016-21)
```

```
value labels ILR_Qual_16 to ILR_Qual_21
1=A-levels
2=Vocational
3=GCSE
4=Apprenticeship
```

```
numeric KS5ILR_Qual_16T to KS5ILR_Qual_18T.
if KS5_Qual_16=2 or ILR_Qual_16=2 KS5ILR_Qual_16T=2.
if KS5_Qual_16=1 or ILR_Qual_16=1 KS5ILR_Qual_16T=1.
if ILR_Qual_16=3 KS5ILR_Qual_16T=3.
```



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if ILR\_Qual\_16=4 KS5ILR\_Qual\_16T=4.  
(repeat for all years 2016-18)

```
compute KS5ILR_Qual_all=KS5ILR_Qual_16T.  
do if KS5ILR_Qual_16T=- 9.  
compute KS5ILR_Qual_all=KS5ILR_Qual_17T.  
else if KS5ILR_Qual_16T=- 9 and KS5ILR_Qual_17T=- 9 .  
compute KS5ILR_Qual_all=KS5ILR_Qual_18T.  
else if KS5ILR_Qual_16T = - 9 and KS5ILR_Qual_17T = - 9 and KS5ILR_Qual_18T= - 9 .  
compute KS5ILR_Qual_all=ILR_Qual_19.  
else if KS5ILR_Qual_16T = - 9 and KS5ILR_Qual_17T = - 9 and KS5ILR_Qual_18T = - 9 and  
ILR_Qual_19=-9.  
compute KS5ILR_Qual_all=ILR_Qual_20.  
else if KS5ILR_Qual_16T=- 9 and KS5ILR_Qual_17T= - 9 and KS5ILR_Qual_18T=- 9 and  
ILR_Qual_19=-9 and ILR_Qual_20=-9.  
compute KS5ILR_Qual_all=ILR_Qual_21.  
end if.
```

value labels KS5ILR\_Qual\_all

1=A-levels  
2=Vocational  
3=GCSE  
4=Apprenticeship

numeric Wave3M.

if miss(KS5\_Examflag) and miss(KS5\_ALEV) and miss(ILA\_Compl) Wave3M=1.  
exe.

```
compute Wave3=KS5ILR_Qual_all.  
recode Wave3 (-9=5) (else=copy).  
if Wave3M=1 Wave3=-9.
```

Analytic variable:

Wave3 (Registration at the Start of FE; aka, Registered qualification at the start of FE)

1 = A-levels  
2 = Vocational  
3 = GCSE  
4 = Apprenticeship  
5 = Other  
-9 = Missing

## **Wave 4: Qualification at the End of Further Education (about age 18)**

Variables used:

ILA\_AimRef (course aim code)

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ILA\_COMPSTATUS (Completion status, 2016-21)

-1=Missing (Not Applicable/Not Known)

1=The learner is continuing or intending to continue the learning aim

2=The learner has completed the learning activities leading to the learning aim

3=The learner has withdrawn from the learning activities leading to the learning aim

4=The learner has transferred to a new learning aim.

5=Changes in learning within the same programme type and sector subject area

6=Learner has temporarily withdrawn from the aim due to an agreed break in learning

ILA\_D\_NOTIONLEV2 (Notional NVQ level of learner version 2)

KS5\_PASS2LV3ALEV (Achieved 2+ A-levels)

1 = Yes

2 = No

KS5\_LEV3THRESH\_ALEV (Student achievement against Level 3 threshold in A-levels)

0 to 350 (score)

ILA\_D\_GCE (A-levels)

ILA\_Apprtshp (Apprenticeship 2016-21)

Transformations:

rename ILA\_COMPSTATUS ILA\_Compl

numeric NVQ\_compl.

if ILA\_Compl =2 NVQ\_compl=ILA\_NOTIONLEV2.

compute NVQlv2=0.

if range(NVQ\_compl, 0,2) NVQlv2=1.

compute NVQlv3=0.

if NVQ\_compl=3 NVQlv3=1.

numeric Alevel2p (A-level 2+)

if KS5\_PASS2LV3ALEV=1 Alevel2p=1.

numeric ILA\_AlevelC.

if ILA\_Compl=2, ILA\_AlevelC=1.

if ILA\_AlevelC=1 Alevel2p=1.

numeric Alevel2m (A-level 1)

if KS5\_PASS2LV3\_ALEV=0 and KS5\_LEV3THRESH\_ALEV<100 Alevel2m=1.

recode ILA\_Apprtshp (1 THRU 5=1) (else=0) into ILA\_ApprtY.

numeric Apprlv2\_C (Apprenticeship Intermediate)

if range(ILA\_NOTIONLEV2, 0, 2) and ILA\_ApprtY=1 and ILA\_Compl=2 Apprlv2\_C=1.

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numeric Apprlv3\_C (Apprenticeship Advanced)

if ILA\_ApprtY=1 and ILA\_Compl=2 and ILA\_NOTIONLEV2=3 Apprlv3\_C=1.

numeric ILA\_Access.

ILA\_LEARNAIMREF=4 ILA\_Access=1.

numeric ILA\_AccessC (Access course)

if ILA\_Compl=2 and ILA\_Access=1 ILA\_AccessC=1.

compute Wave4b=10.

if NVQlv2=1 Wave4b=4.

if NVQlv3=1 Wave4b=3.

if Alevel2p=1 Wave4b=1.

if Alevel2m=1 Wave4b=2.

if Apprlv2\_C=1 Wave4b=6.

if Apprlv3\_C=1 Wave4b=5.

if ILA\_AccessC=1 Wave4b=7.

numeric W4comp.

if miss(Wave4b) and HE\_Entry=0 and ILA\_Compl=3 W4comp=2.

if miss(Wave4b) and ILA\_Compl=1 and HE\_Entry=0 W4comp=1.

if miss(Wave4b) and ILA\_Compl>3 and HE\_Entry=0 W4comp=1.

compute Wave4=Wave4b.

if W4comp=1 Wave4=8.

if W4comp=2 Wave4=9.

numeric Wave4M.

if miss(KS5\_ALEV) and miss(ILA\_Compl) Wave4M=1.

If Wave4M=1 Wave4=-9.

Analytic variable:

Wave4 (Qualification at the End of FE)

1 = A-levels (2+)

2 = A-levels (<2)

3 = NVQ Level 3 (aka, NVQ lv3; Vocational (Level 3))

4 = NVQ Level 2 or lower (aka, NVQ lv2-; Vocational (Level 2))

5 = Apprenticeship (Advanced) (aka, App (Adv))

6 = Apprenticeship (Intermediate) (aka, App (Int))

7 = Access course (aka, Access)

8 = Continuing studies

9 = Withdrawn

10 = Other

-9 = Missing

## Wave 5: Registration at the Start of Higher Education (about age 19)

### Variables used:

ILA\_NOTIONLEV2 (Notional NVQ level)

ILA\_ApprtY (Apprenticeship)

CourseAim2 (HE course aim)

### Transformations:

```
compute Alev2ndY_18 = KS5_InScope_ALEV_2ndYr
```

numeric ILA\_ApprDegSub.

```
if ILA_ApprtY=1 and ILA_NOTIONLEV2=4 ILA_ApprDegSub=2.
```

```
if ILA_ApprtY=1 and ILA_NOTIONLEV2=5 ILA_ApprDegSub=2.
```

```
if ILA_ApprtY=1 and ILA_NOTIONLEV2>5 ILA_ApprDegSub=1.
```

```
value labels ILA_ApprDegSub
```

```
1=Degree level Apprenticeship
```

```
2=Subdegree level Apprenticeship
```

```
compute Wave5=5.
```

```
if CourseAim2<6 Wave5=1.
```

```
if range(CourseAim2, 6, 9) Wave5=3.
```

```
if ILA_ApprDegSub=1 Wave5=2.
```

```
if ILA_ApprDegSub=2 Wave5=4.
```

```
if HE_Entry=0 Wave5=-8.
```

### Analytic variable:

Wave5 (Registration at the Start of HE; aka, Registered qualification at the start of HE)

1 = Degree

2 = Degree Apprenticeship (aka, Degree Appr)

3 = Subdegree

4 = Subdegree Apprenticeship (aka, Subdeg Appr)

5 = Other

-8 = Non HE Entry (aka, Missing)

## Wave 6: Qualification at the End of Higher Education (about age 22)

### Variables used:

HE\_XCLASS01 (Classification of qualification)

1 = First-class honours

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- 2 = Upper second-class honours
- 3 = Lower second-class honours
- 4 = Third-class honours/pass
- 5 = Unclassified
- 6 = FE-level qualification
- 7 = Other HE-level qualification

ILA\_OUTGRADE (Learning outcome grade)

- PA=Pass
- ME=Merit
- CR=Credit
- DS=Distinction
- FL=Fail
- 01 - 99 Numeric value
- FI=First class honours
- SU=Upper second class honours
- SL=Lower second class honours
- SE=Undivided second class honours
- TH=Third class honours
- FO=Fourth class honours
- UH=Unclassified honours

ILA\_HE\_Entry (ILR, HE entry)

HQualgp

- 1 = Postgraduate degree
- 2 = Degree
- 3 = Subdegree
- 4 = FE
- 5 = No qualification

ComplHE

- 1 = Completed
- 2 = Continue
- 3 = Withdrawn
- 4 = Transferred
- 5 = Paused

Transformations:

recode HE\_XCLASS01 (1 = 1) (2 = 2) (3,4 = 3) (5,7= 4) into HE\_DegClgp

numeric HE\_DegCl\_gp1.

if HE\_HQualgp=2 HE\_DegCl\_gp1=HE\_DegClgp

HE\_DegCl\_gp1

- 1 = First-class honours
- 2 = Upper second-class honours
- 3 = Lower second-class/third class honours
- 4 = Other

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```
recode ILA_OUTGRADE ('1' = 1) ('FI' = 1) ('2' = 2) ('SU' = 2) ('22' = 3) ('SL' = 3) ('SE' = 3) ('3' = 3) ('TH' = 3) ('CR' = 4) ('DS' = 4) ('ME' = 4) ('OR' = 4) ('PA' = 4) ('UH' = 4) into ILA_Grade
```

ILA\_Grade

- 1 = First-class honours
- 2 = Upper second-class honours
- 3 = Lower second-class/third class honours
- 4 = Other

numeric ILA\_DegClass

```
if ILA_HQualgp=2 ILA_DegClass = ILA_Grade
```

numeric DegClall.

```
HE_ILA=1 DegClall= HE_DegCl_gp1
```

```
HE_ILA=2 DegClall=ILA_DegClass
```

DegClall

- 1 = First-class honours
- 2 = Upper second-class honours
- 3 = Lower second-class/third class honours
- 4 = Other

```
compute Wave6 =-9.
```

```
if Compl_HE=3 Wave6=8.
```

```
if Compl_HE=2 Wave6=7.
```

```
if Compl_HE=4 Wave6=7.
```

```
if Compl_HE=5 Wave6=7.
```

```
if HQualgp=3 Wave6=6.
```

```
if DegClall=1 Wave6=2.
```

```
if DegClall=2 Wave6=2.
```

```
if DegClall=3 Wave6=3.
```

```
if DegClall=4 Wave6=5.
```

```
if HQualgp=1 Wave6=1.
```

```
recode Wave6 (1 thru 5=2) (else=copy) into Wave6a.
```

Analytic variables:

Wave6 (Qualification at the End of HE)

- 1 = Postgraduate degree (aka, Postgrad)
- 2 = Degree with first-class honours (aka, Degree I)
- 3 = Degree with upper-second-class honours (aka, Degree II:i)
- 4 = Degree with lower-second-class or third-class honours (aka, Degree II: ii/III)
- 5 = Degree (other) (aka, Degree Other)
- 6 = Subdegree
- 7 = Continuing studies
- 8 = Withdrawn
- 9 = Missing

2 = Degree+

6 = Subdegree

7 = Continuing studies

8 = Withdrawn

-9 = Missing

## V. Pathway Variable Descriptions and Coding Patterns

### 1. Introduction to the Construction of Pathway Variables Denoting Young People's Pathways Into and Through Higher Education

Initially, the educational pathway status variables (described above, in Section IV, and shown in Figure B1) were used to construct several sets of educational pathway variables. Most of the educational pathway variables are focused on a particular educational outcome (e.g., HE entry) and constructed to test a set of related research questions about that outcome. For example, the first set of pathway analyses address questions about the traditional and alternative educational pathways young people follow from the end of KS4 (W2 qualification), to the beginning of FE (W3 registration), through to the end of FE (W4 qualifications) and then either into HE or not. In addition to (a) HE entry, below are presented sets of educational pathways focused on (b) age 18/19 entry into HE, (c) entry into a top-tier university and (d) the highest degree earned by the age of 22.

The numerical codes for each pathway status variable are provided in Figure B1 to clarify the construction and definition of the educational pathway variables described below. For example, rather than describing a particular educational pathway by reference to the complete verbal description of each registration or qualification at each wave (e.g., 'GCSE-High' at W2, 'A-levels' at W3 and 'A-levels (2+)' at W4), a simplified numerical coding pattern, such as '1, 1, 1' (or W2.1, W3.1, W4.1), is often used to describe the educational pathway followed by a particular young person or group of young people. In other words, the numbers used where describing the simplified numerical coding patterns that denote each pathway refer to the numbers next to the verbal descriptions shown in Figure B1.

After describing the construction of the different educational pathway variables, each focused on a particular set of pathways and outcomes (e.g., 'academic' vs 'vocational' pathways to HE entry), the resulting educational pathway variables are then summarised, along with the corresponding pathway variable values (representing the different pathways that were coded into each pathway variable), in Tables B1–B19.

Figure B1. The Enumerated W2–W6 Pathway Status Variables.

Wave 2 Quals at end of KS4	Wave 3 Start of FE registration	Wave 4 Quals at end of FE	Wave 5 Start of HE registration	Wave 6 Quals at end of HE
1. GCSE-High	1. A levels	1. A levels (2+)	1. Degree	1. Postgraduate
2. GCSE-Med	2. Vocational	2. A levels (<2)	2. Degree Apprenticeship	2. Degree: I
3. GCSE-Low	3. GCSE	3. Vocational (Level 3)	3. Subdegree	3. Degree: II:i
4. GCSE-No	4. Apprenticeship	4. Vocational (Level 2)	4. Subdegree Apprenticeship	4. Degree: II:ii / III
		5. Apprenticeship (Advanced)		5. Degree: Other class
		6. Apprenticeship (Intermediate)		6. Subdegree
		7. Access		7. Continuing
		8. Continuing		8. Withdrawn
		9. Withdrawn		

## 2. Pathways to Higher Education Entry

**Academic Pathways.** The first set of educational pathways was constructed and saved to a single pathway variable (i.e., HEpath1: ‘Traditional Pathway to HE Entry’) by combining information about young people from the W2, W3 and W4 pathway status variables (see Figure B1) together with OV1 (i.e., ‘Initial Entry into HE’, where 1 = Yes, 2 = No). Specifically, if a young person (e.g., ‘Rebecca’) had (a) attained five or more A\*–C or 9–4 grades for GCSEs or equivalents, including English and Maths, by the end of KS4 (i.e., W2 = 1, also called ‘GCSE-High’); (b) registered for A-levels at the start of FE (i.e., W3 = 1); (c) attained two or more A-levels by the end of FE (i.e., W4 = 1); and (d) entered HE (i.e., OV1 = 1), then Rebecca was assigned a ‘1’ (i.e., the traditional academic pathway for young people from the general population) on the HEpath1 variable. If the pattern of variable values across W2, W3, W4 and OV1 was anything other than ‘1, 1, 1, 1’, then the young person was assigned a ‘0’ (i.e., not the traditional pathway) on the HEpath1 variable. The dichotomous Traditional Pathway to HE Entry variable is summarized in the top panel of Table B1.

In addition, because there is often interest in knowing how HE entry rates vary across different groups of young people with experience of social care *for only those who entered HE*, this conditional information about HE entry rates is represented by the next pathway variable, which includes both the traditional academic pathway category together with several different alternative academic pathways from the end of KS4 to HE entry. In this case, the focus was on alternative pathways characterised by different



academic attainments (i.e., as opposed to vocational or apprenticeship information, which is addressed separately). These traditional and alternative academic pathways to HE entry were constructed and saved to a single pathway variable (i.e., HEpath2: 'Traditional and Alternative Academic Pathways to HE Entry'), again by combining information about young people from the W2, W3 and W4 pathway status variables but, in this case, using only the OV1 category: 1 = Yes, entry into HE.

Specifically, if a young person followed the previously described traditional pathway to HE—such that their coding pattern across waves was '1, 1, 1, 1'—then they were assigned a variable value of '1' on HEpath2 (where '1' means they followed the traditional academic pathway into HE). However, if a young person (e.g., 'John') had (a) attained five or more A\*–C or 9–4 grades for GCSEs or equivalents that did *not* include English and Maths by the end of KS4 (i.e., W2 = 2, also called 'GCSE-Med'); (b) registered for A-levels at the start of FE (i.e., W3 = 1); (c) attained two or more A-levels by the end of FE (i.e., W4 = 1); and (d) entered HE (i.e., OV1 = 1), then John's '2, 1, 1, 1' coding pattern was assigned a '2' on the HEpath2 variable. Similarly, if a young person (e.g., 'Sasha') ended KS4 with 'GCSE-Low' attainment (e.g., one or more A\*–G grades or 9–1 grades for GCSEs or equivalents) and then followed the traditional pathway to entering HE, then Sasha's '3, 1, 1, 1' coding pattern was assigned a '3' on the HEpath2 variable.

If a young person (e.g., 'Tarik') ended KS4 with no qualifications (i.e., W2 = 4; e.g., no passes in KS4 performance tables qualifications), registered for GCSEs at the start of FE (i.e., W3 = 3), attained two or more A-levels by the end of FE (i.e., W4 = 1) and then entered HE (i.e., OV1 = 1), then Tarik's '4, 3, 1, 1' coding pattern was assigned a '4' on the HEpath2 variable.

To this core set of alternative academic pathways, we also added to HEpath2 some additional alternative academic pathways, mainly focused on young people who registered for GCSEs at the start of FE, presumably with the intention of increasing their GCSE qualifications before working on their A-levels. Specifically, young people who attained less than two A-levels by the end of FE (i.e., W4 = 2, also called 'A-levels (<2)') but who otherwise followed the traditional academic pathway to HE entry (i.e., coding pattern '1, 1, 2, 1') were assigned a '5' on the HEpath2 variable. Young people who ended KS4 with 'GCSE-Med' attainment (i.e., W2 = 2), registered for GCSEs at the start of FE (i.e., W3 = 3), ended FE with two or more A-levels (i.e., W4 = 1) and then entered HE (i.e., coding pattern '2, 3, 1, 1') were assigned a '6' on the HEpath2 variable. Young people who followed a similar pathway but attained less than two A-levels by the end of FE (i.e., coding pattern '2, 3, 2, 1') were assigned a '7' on the HEpath2 variable. Similarly, young people who ended KS4 with 'GCSE-Low' attainment (i.e., W2 = 3), registered for GCSEs at the start of FE (i.e., W3 = 3), ended FE with two or more A-levels (i.e., W4 = 1) and then entered HE (i.e., coding pattern '3, 3, 1, 1') were assigned a '8' on the HEpath2 variable. Young people who followed a similar pathway but attained less than two A-

levels by the end of FE (i.e., coding pattern '3, 3, 2, 1') were assigned a '9' on the HEpath2 variable. All other pathway coding patterns (i.e., pathways that involved a mix across waves of academic, vocational, and apprenticeship registrations and qualifications, as defined in this study), were assigned a '0' (i.e., 'All other pathways' or 'Other') on HEpath2.

*Vocational Pathways.* To examine the potentially viable routes to HE entry through vocational options during FE, a third educational pathway variable was created (i.e., HEpath3: 'Vocational Pathways to HE Entry'), again focused only on young people who entered HE. Specifically, if a young person attained a 'GCSE-High' qualification at the end of KS4 (i.e., W2 = 1), registered for vocational or GCSE studies at the start of FE (i.e., W3 = 2 or 3),<sup>1</sup> attained an NVQ Level 3 qualification at the end of FE (i.e., W4 = 3) and then entered HE, their '1, 2/3, 3, 1' coding pattern was assigned a '1' on the HEpath3 variable. If a young person followed a pathway like the previous one but attained an NVQ Level 1 as their highest FE qualification (i.e., W4 = 4), their '1, 2/3, 4, 1' coding pattern was assigned a '2' on HEpath3.

If a young person attained a 'GCSE-Med' qualification at the end of KS4 (i.e., W2 = 2), registered for vocational or GCSE studies at the start of FE (i.e., W3 = 2 or 3), attained an NVQ Level 3 qualification at the end of FE (i.e., W4 = 3) and then entered HE, their '2, 2/3, 3, 1' coding pattern was assigned a '3' on HEpath3. If a young person followed a pathway like the previous one but attained an NVQ Level 1 as their highest FE qualification (i.e., W4 = 4), their '2, 2/3, 4, 1' coding pattern was assigned a '4' on HEpath3.

If a young person attained a 'GCSE-Low' qualification at the end of KS4 (i.e., W2 = 3), registered for vocational or GCSE studies at the start of FE (i.e., W3 = 2 or 3), attained an NVQ Level 3 qualification at the end of FE (i.e., W4 = 3) and then entered HE, their '3, 2/3, 3, 1' coding pattern was assigned a '5' on HEpath3. If a young person followed a pathway like the previous one but attained an NVQ Level 1 as their highest FE qualification (i.e., W4 = 4), their '3, 2/3, 4, 1' coding pattern was assigned a '6' on HEpath3. For completeness, the two corresponding pathways for young people who ended KS4 with 'no qualifications' were included (i.e., W2 = 4, also called 'GCSE-None'); that is, young people whose coding pattern was '4, 2, 3, 1' were assigned a '7' on HEpath3, and young people whose coding pattern was '4, 2, 4, 1' were assigned an '8' on HEpath3. All other pathway coding patterns were assigned a '0' (i.e., 'All other pathways' or 'Other') on HEpath3.

---

<sup>1</sup> The W2 GCSE and Vocational categories were combined here (and elsewhere) to ensure that young people whose intention was to upskill their GCSEs (or who had registered for GCSEs) before working on their vocational qualifications were included in this and similar pathways.

**Apprenticeship Pathways.** To examine the potentially viable routes to HE entry that go through apprenticeship options during FE, a fourth educational pathway variable was created (i.e., HEpath4: 'Apprenticeship Pathways to HE Entry'), again focused only on young people who entered HE. Specifically, if a young person attained a 'GCSE-High' qualification at the end of KS4 (i.e., W2 = 1), registered for an apprenticeship or GCSEs at the start of FE (i.e., W3 = 3 or 4), attained an advanced (i.e., Level 3) apprenticeship qualification at the end of FE (i.e., W4 = 5, also called 'App (Adv)') and then entered HE, their '1, 3/4, 5, 1' coding pattern was assigned a '1' on the HEpath4 variable. If a young person followed a pathway like the previous one but attained an intermediate (Level 2) apprenticeship qualification at the end of FE (i.e., W4 = 6, also called 'App (Int)'), their '1, 3/4, 6, 1' coding pattern was assigned a '2' on HEpath4.

If a young person attained a 'GCSE-Med' qualification at the end of KS4 (i.e., W2 = 2), registered for an apprenticeship or GCSEs at the start of FE (i.e., W3 = 4), attained an advanced apprenticeship qualification at the end of FE (i.e., W4 = 5) and then entered HE, their '2, 3/4, 5, 1' coding pattern was assigned a '3' on HEpath4. If a young person followed a pathway like the previous one but attained an intermediate apprenticeship qualification at the end of FE (i.e., W4 = 6), their '2, 3/4, 6, 1' coding pattern was assigned a '4' on HEpath4.

If a young person attained a 'GCSE-Low' qualification at the end of KS4 (i.e., W2 = 3), registered for an apprenticeship or GCSEs at the start of FE (i.e., W3 = 3 or 4), attained an advanced apprenticeship qualification at the end of FE (i.e., W4 = 5) and then entered HE, their '3, 3/4, 5, 1' coding pattern was assigned a '5' on HEpath4. If a young person followed a pathway like the previous one but attained an advanced apprenticeship qualification at the end of FE (i.e., W4 = 6), their '3, 3/4, 6, 1' coding pattern was assigned a '6' on HEpath4. For completeness, the two corresponding pathways for young people who ended KS4 with 'no qualifications' were included (i.e., W2 = 4); that is, young people whose coding pattern was '4, 4, 5, 1' were assigned a '7' on HEpath4, and young people whose coding pattern was '4, 4, 6, 1' were assigned an '8' on HEpath4. All other pathway coding patterns were assigned a '0' (i.e., 'All other pathways' or 'Other') on HEpath4.

*Table B1. Summary of the HE Entry Educational Pathway Variables.*

Name	Value	Label	Coding Pattern
HEpath1		Traditional Pathway to HE Entry	
	1	Yes, entered HE	W2.1, W3.1, W4.1, OV1.1
	0	No, did not enter HE	Other
HEpath2		Traditional and Alternative Academic Pathways to HE Entry	
	1	Traditional pathway	W2.1, W3.1, W4.1, OV1.1

	2	GCSE-Med pathway	W2.2, W3.1, W4.1, OV1.1
	3	GCSE-Low pathway	W2.3, W3.1, W4.1, OV1.1
	4	GCSE-None pathway	W2.4, W3.3, W4.1, OV1.1
	5	A-levels (<2) pathway	W2.1, W3.1, W4.2, OV1.1
	6	GCSE-Med, GCSE, A-levels (2+)	W2.2, W3.3, W4.1, OV1.1
	7	GCSE-Med, GCSE, A-levels (<2)	W2.2, W3.3, W4.2, OV1.1
	8	GCSE-Low, GCSE, A-levels (2+)	W2.3, W3.3, W4.1, OV1.1
	9	GCSE-Low, GCSE, A-levels (<2)	W2.3, W3.3, W4.2, OV1.1
	0	All other pathways	Other
HEpath3		Vocational Pathways to HE Entry	
	1	GCSE-High, Vocational, NVQ-L3	W2.1, W3.2/3, W4.3, OV1.1
	2	GCSE-High, Vocational, NVQ-L2-	W2.1, W3.2/3, W4.4, OV1.1
	3	GCSE-Med, Vocational, NVQ-L3	W2.2, W3.2/3, W4.3, OV1.1
	4	GCSE-Med, Vocational, NVQ-L2-	W2.2, W3.2/3, W4.4, OV1.1
	5	GCSE-Low, Vocational, NVQ-L3	W2.3, W3.2/3, W4.3, OV1.1
	6	GCSE-Low, Vocational, NVQ-L2-	W2.3, W3.2/3, W4.4, OV1.1
	7	GCSE-None, Vocational, NVQ-L3	W2.4, W3.2/3, W4.3, OV1.1
	8	GCSE-None, Vocational, NVQ-L2-	W2.4, W3.2/3, W4.4, OV1.1
	0	All other pathways	Other
HEpath4		Apprenticeship Pathways to HE Entry	
	1	GCSE-High, Apprenticeship, App (Adv)	W2.1, W3.3/4, W4.5, OV1.1
	2	GCSE-High, Apprenticeship, App (Int)	W2.1, W3.3/4, W4.6, OV1.1
	3	GCSE-Med, Apprenticeship, App (Adv)	W2.2, W3.3/4, W4.5, OV1.1
	4	GCSE-Med, Apprenticeship, App (Int)	W2.2, W3.3/4, W4.6, OV1.1
	5	GCSE-Low, Apprenticeship, App (Adv)	W2.3, W3.3/4, W4.5, OV1.1
	6	GCSE-Low, Apprenticeship, App (Int)	W2.3, W3.3/4, W4.6, OV1.1
	7	GCSE-None, Apprenticeship, App (Adv)	W2.4, W3.3/4, W4.5, OV1.1
	8	GCSE-None, Apprenticeship, App (Int)	W2.4, W3.3/4, W4.6, OV1.1
	0	All other pathways	Other

### 3. Pathways to Age 18/19 Higher Education Entry

The construction of the educational pathway variables representing the academic, vocational and apprenticeship pathways from the end of KS4 to age 18/19 HE entry followed the same procedure used to construct the previously described HE entry pathway variables, with one exception: 'Initial Entry to HE' (OV1) was replaced with 'Age 18/19 HE Entry' (OV1b). In other words, the same set of pathway status variable codes was used from W2 (i.e., 'Qualification at the end of KS4') to W3 (i.e., 'Registered qualification at the start of FE') to W4 (i.e., 'Qualification at the end of FE') but the OV1b auxiliary outcome variable 'Age 18/19 HE Entry' (where 1 = age 18/19 HE entry, 0 = not age 18/19 HE entry) was used in place of the OV1 (i.e., 'Initial entry to HE Entry') primary

outcome variable. The resulting academic, vocational and apprenticeship pathway variables (i.e., HEpath5, HEpath6, HEpath7 and HEpath8), with their pathway-specific coding patterns, are shown in Table B2.

*Table B2. Summary of the Age 18/19 HE Entry Educational Pathway Variables.*

Name	Value	Label	Coding Pattern
HEpath5		Traditional Pathway to Age 18/19 HE Entry	
	1	Yes, entered HE at age 18/19	W2.1, W3.1, W4.1, OV1b.1
	0	No, did not enter HE at age 18/19	Other
HEpath6		Traditional and Alternative Academic Pathways to Age 18/19 HE Entry	
	1	Traditional pathway	W2.1, W3.1, W4.1, OV1b.1
	2	GCSE-Med pathway	W2.2, W3.1, W4.1, OV1b.1
	3	GCSE-Low pathway	W2.3, W3.1, W4.1, OV1b.1
	4	GCSE-None pathway	W2.4, W3.3, W4.1, OV1b.1
	5	A-levels (<2) pathway	W2.1, W3.1, W4.2, OV1b.1
	6	GCSE-Med, GCSE, A-levels (2+)	W2.2, W3.3, W4.1, OV1b.1
	7	GCSE-Med, GCSE, A-levels (<2)	W2.2, W3.3, W4.2, OV1b.1
	8	GCSE-Low, GCSE, A-levels (2+)	W2.3, W3.3, W4.1, OV1b.1
	9	GCSE-Low, GCSE, A-levels (<2)	W2.3, W3.3, W4.2, OV1b.1
	0	All other pathways	Other
HEpath7		Vocational Pathways to Age 18/19 HE Entry	
	1	GCSE-High, Vocational, NVQ-L3	W2.1, W3.2/3, W4.3, OV1b.1
	2	GCSE-High, Vocational, NVQ-L2-	W2.1, W3.2/3, W4.4, OV1b.1
	3	GCSE-Med, Vocational, NVQ-L3	W2.2, W3.2/3, W4.3, OV1b.1
	4	GCSE-Med, Vocational, NVQ-L2-	W2.2, W3.2/3, W4.4, OV1b.1
	5	GCSE-Low, Vocational, NVQ-L3	W2.3, W3.2/3, W4.3, OV1b.1
	6	GCSE-Low, Vocational, NVQ-L2-	W2.3, W3.2/3, W4.4, OV1b.1
	7	GCSE-None, Vocational, NVQ-L3	W2.4, W3.2/3, W4.3, OV1b.1
	8	GCSE-None, Vocational, NVQ-L2-	W2.4, W3.2/3, W4.4, OV1b.1
	0	All other pathways	Other
HEpath8		Apprenticeship Pathways to Age 18/19 HE Entry	
	1	GCSE-High, Apprenticeship, App (Adv)	W2.1, W3.3/4, W4.5, OV1b.1
	2	GCSE-High, Apprenticeship, App (Int)	W2.1, W3.3/4, W4.6, OV1b.1
	3	GCSE-Med, Apprenticeship, App (Adv)	W2.2, W3.3/4, W4.5, OV1b.1
	4	GCSE-Med, Apprenticeship, App (Int)	W2.2, W3.3/4, W4.6, OV1b.1
	5	GCSE-Low, Apprenticeship, App (Adv)	W2.3, W3.3/4, W4.5, OV1b.1
	6	GCSE-Low, Apprenticeship, App (Int)	W2.3, W3.3/4, W4.6, OV1b.1
	7	GCSE-None, Apprenticeship, App (Adv)	W2.4, W3.3/4, W4.5, OV1b.1
	8	GCSE-None, Apprenticeship, App (Int)	W2.4, W3.3/4, W4.6, OV1b.1
	0	All other pathways	Other

#### 4. Pathways to Entry into a Top-tier (Boliver) Higher Education Institution

The construction of the educational pathway variables representing the academic, vocational and apprenticeship pathways from the end of KS4 to a top-tier HE institution at HE entry followed the same procedure used to construct the previously described HE entry and age 18/19 HE entry pathway variables, with the same exception: the OV1b outcome variable (i.e., 'Age 18/19 HE Entry') was replaced with the OV2 outcome variable (i.e., 'Type of Institution Initially Attended'). Specifically, the same set of pathway status variable codes was used from W2 (i.e., 'Qualification at the end of KS4') to W3 (i.e., 'Registered qualification at the start of FE') to W4 (i.e., 'Qualification at the end of FE'), but the OV2b auxiliary outcome variable (i.e., 'Entry into a Top-tier HE Institution', where 1 = Yes, 0 = No) was used in place of OV1b. The resulting academic, vocational and apprenticeship pathway variables (i.e., HEpath9, HEpath10, HEpath11 and HEpath12), with the pathway-specific coding patterns, are shown in Table B3.

*Table B3. Summary of the Top-tier HE Institution Educational Pathway Variables.*

Name	Value	Label	Coding Pattern
HEpath9		Traditional Pathway to a Top-tier HE Institution	
	1	Yes, entered HE	W2.1, W3.1, W4.1, OV2b.1
	0	No, did not enter HE	Other
HEpath10		Traditional and Alternative Academic Pathways to Top-tier HE Institution	
	1	Traditional pathway	W2.1, W3.1, W4.1, OV2b.1
	2	GCSE-Med pathway	W2.2, W3.1, W4.1, OV2b.1
	3	GCSE-Low pathway	W2.3, W3.1, W4.1, OV2b.1
	4	GCSE-None pathway	W2.4, W3.3, W4.1, OV2b.1
	5	A-levels (<2) pathway	W2.1, W3.1, W4.2, OV2b.1
	6	GCSE-Med, GCSE, A-levels (2+)	W2.2, W3.3, W4.1, OV2b.1
	7	GCSE-Med, GCSE, A-levels (<2)	W2.2, W3.3, W4.2, OV2b.1
	8	GCSE-Low, GCSE, A-levels (2+)	W2.3, W3.3, W4.1, OV2b.1
	9	GCSE-Low, GCSE, A-levels (<2)	W2.3, W3.3, W4.2, OV2b.1
0	All other pathways	Other	
HEpath11		Vocational Pathways to Top-tier HE Institution	
	1	GCSE-High, Vocational, NVQ-L3	W2.1, W3.2/3, W4.3, OV2b.1
	2	GCSE-High, Vocational, NVQ-L2-	W2.1, W3.2/3, W4.4, OV2b.1
	3	GCSE-Med, Vocational, NVQ-L3	W2.2, W3.2/3, W4.3, OV2b.1
	4	GCSE-Med, Vocational, NVQ-L2-	W2.2, W3.2/3, W4.4, OV2b.1
	5	GCSE-Low, Vocational, NVQ-L3	W2.3, W3.2/3, W4.3, OV2b.1
	6	GCSE-Low, Vocational, NVQ-L2-	W2.3, W3.2/3, W4.4, OV2b.1
	7	GCSE-None, Vocational, NVQ-L3	W2.4, W3.2/3, W4.3, OV2b.1
	8	GCSE-None, Vocational, NVQ-L2-	W2.4, W3.2/3, W4.4, OV2b.1
0	All other pathways	Other	

HEpath12		Apprenticeship Pathways to Top-tier HE Institution	
	1	GCSE-High, Apprenticeship, App (Adv)	W2.1, W3.3/4, W4.5, OV2b.1
	2	GCSE-High, Apprenticeship, App (Int)	W2.1, W3.3/4, W4.6, OV2b.1
	3	GCSE-Med, Apprenticeship, App (Adv)	W2.2, W3.3/4, W4.5, OV2b.1
	4	GCSE-Med, Apprenticeship, App (Int)	W2.2, W3.3/4, W4.6, OV2b.1
	5	GCSE-Low, Apprenticeship, App (Adv)	W2.3, W3.3/4, W4.5, OV2b.1
	6	GCSE-Low, Apprenticeship, App (Int)	W2.3, W3.3/4, W4.6, OV2b.1
	7	GCSE-None, Apprenticeship, App (Adv)	W2.4, W3.3/4, W4.5, OV2b.1
	8	GCSE-None, Apprenticeship, App (Int)	W2.4, W3.3/4, W4.6, OV2b.1
	0	All other pathways	Other

## 5. Pathways to the End of Higher Education (or age 22)

The educational pathway variables representing the academic, vocational and apprenticeship pathways from the end of KS4 to the end of HE (or age 22, whichever came first) were constructed by combining (a) the previously specified academic, vocational and apprenticeship pathways from W2 (i.e., 'Qualification at the end of KS4') through W3 (i.e., 'Registered qualification at the start of FE') to W4 (i.e., 'Qualification at the end of FE') with (b) the pathways (described below) from W5 (i.e., 'Registered qualification at the start of HE') to W6 (i.e., 'Qualification at the end of HE' or by age 22).

The educational pathways from W5 to W6 represent the relationship between a young person's degree registration at HE entry and the HE degree they attained by age 22. To simplify this analysis, the first five categories of the W6 pathway status variable (e.g. 'Postgraduate degree', 'Degree with first-class honours', 'Degree (class other)') are referred to, collectively, as 'Degree'. Consequently, for each of the four W5 degree registration categories (i.e., 'Degree', 'Degree Apprenticeship', 'Subdegree' and 'Subdegree Apprenticeship'), we coded whether the young person followed a pathway to one of four possible W6 degree attainment categories: 'Degree', 'Subdegree', 'Continuing' or 'Withdrawn'. For example, a young person who registered for a first (Level 6) degree at the start of HE may have (a) attained a degree by the end of HE (or by age 22), (b) attained a subdegree, (c) been continuing their studies or (d) withdrawn from HE studies. The 16 W5 to W6 pathways through HE implied by the four W5 degree registration and the four W6 degree attainments were organised into four sets of four pathways, with each set being anchored to one of the four W5 degree registrations; that is, the four sets of W5 to W6 pathways are referred to, respectively, as 'Degree registration pathways', 'Subdegree registration pathways', 'Apprenticeship degree registration pathways' and 'Apprenticeship subdegree registration pathways'.

After constructing the 16 possible pathways from the four W5 degree registrations to the four W6 degree attainments, the complete set of educational pathways was constructed from the end of KS4 (i.e., W2) to the end of HE (i.e., W6) by connecting the previously described academic, vocational and apprenticeship pathways from W2 to

W4 with the 16 possible pathways through HE (i.e., from W5 to W6). Specifically, the W2 to W4 parts of the nine 'Traditional and Alternative Academic Pathways to HE Entry' (i.e., HEpath2) were connected to the four 'Degree registration pathways' from W5 to W6 to yield the 36 'Traditional and Alternative Academic Pathways from KS4 to HE Degree Registration and HE Attainment by Age 22' (i.e., HEpath13) shown in Table B4.

*Table B4. Traditional and Alternative Academic Pathways from KS4 to HE Degree Registration and HE Attainment by Age 22.*

Name	Value	Label	Coding Pattern
HEpath13		Traditional and Alternative Academic Pathways from KS4 to HE Degree Registration and HE Attainment by Age 22	W2, W3, W4, W5, W6
	1	Traditional pathway to Degree	1, 1, 1, 1, 1–5
	2	Traditional pathway to Subdegree	1, 1, 1, 1, 6
	3	Traditional pathway to Continuing	1, 1, 1, 1, 7
	4	Traditional pathway to Withdrawal	1, 1, 1, 1, 8
	5	GCSE-Med ... to Degree	2, 1, 1, 1, 1–5
	6	GCSE-Med ... to Subdegree	2, 1, 1, 1, 6
	7	GCSE-Med ... to Continuing	2, 1, 1, 1, 7
	8	GCSE-Med ... to Withdrawal	2, 1, 1, 1, 8
	9	GCSE-Low ... to Degree	3, 1, 1, 1, 1–5
	10	GCSE-Low ... to Subdegree	3, 1, 1, 1, 6
	11	GCSE-Low ... to Continuing	3, 1, 1, 1, 7
	12	GCSE-Low ... to Withdrawal	3, 1, 1, 1, 8
	13	GCSE-None ... to Degree	4, 3, 1, 1, 1–5
	14	GCSE-None ... to Subdegree	4, 3, 1, 1, 6
	15	GCSE-None ... to Continuing	4, 3, 1, 1, 7
	16	GCSE-None ... to Withdrawal	4, 3, 1, 1, 8
	17	A-levels (<2) ... to Degree	1, 1, 2, 1, 1–5
	18	A-levels (<2) ... to Subdegree	1, 1, 2, 1, 6
	19	A-levels (<2) ... to Continuing	1, 1, 2, 1, 7
	20	A-levels (<2) ... to Withdrawal	1, 1, 2, 1, 8
	21	GCSE-Med ... A-levels (2+) ... to Degree	2, 3, 1, 1, 1–5
	22	GCSE-Med ... A-levels (2+) ... to Subdegree	2, 3, 1, 1, 6
	23	GCSE-Med ... A-levels (2+) ... to Continuing	2, 3, 1, 1, 7
	24	GCSE-Med ... A-levels (2+) ... to Withdrawal	2, 3, 1, 1, 8
	25	GCSE-Med ... A-levels (<2) ... to Degree	2, 3, 2, 1, 1–5
	26	GCSE-Med ... A-levels (<2) ... to Subdegree	2, 3, 2, 1, 6
	27	GCSE-Med ... A-levels (<2) ... to Continuing	2, 3, 2, 1, 7
	28	GCSE-Med ... A-levels (<2) ... to Withdrawal	2, 3, 2, 1, 8
	29	GCSE-Low ... A-levels (2+) ... to Degree	3, 3, 1, 1, 1–5
	30	GCSE-Low ... A-levels (2+) ... to Subdegree	3, 3, 1, 1, 6
	31	GCSE-Low ... A-levels (2+) ... to Continuing	3, 3, 1, 1, 7
	32	GCSE-Low ... A-levels (2+) ... to Withdrawal	3, 3, 1, 1, 8
	33	GCSE-Low ... A-levels (<2) ... to Degree	3, 3, 2, 1, 1–5
	34	GCSE-Low ... A-levels (<2) ... to Subdegree	3, 3, 2, 1, 6
	35	GCSE-Low ... A-levels (<2) ... to Continuing	3, 3, 2, 1, 7
	36	GCSE-Low ... A-levels (<2) ... to Withdrawal	3, 3, 2, 1, 8



	0	All other pathways	Other
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Similarly, the W2 to W4 parts of the nine 'Traditional and Alternative Academic Pathways to HE Entry' (i.e., HEpath2) were connected to the four 'Subdegree registration pathways' from W5 to W6 to yield the 36 'Traditional and Alternative Academic Pathways from KS4 to HE Subdegree Registration and HE Attainment by Age 22' (i.e., HEpath14) shown in Table B5.

*Table B5. Traditional and Alternative Academic Pathways from KS4 to HE Subdegree Registration and HE Attainment by Age 22.*

Name	Value	Label	Coding Pattern
HEpath14		Traditional and Alternative Academic Pathways from KS4 to HE Subdegree Registration and HE Attainment by Age 22	W2, W3, W4, W5, W6
	1	Traditional pathway to Degree	1, 1, 1, 3, 1-5
	2	Traditional pathway to Subdegree	1, 1, 1, 3, 6
	3	Traditional pathway to Continuing	1, 1, 1, 3, 7
	4	Traditional pathway to Withdrawal	1, 1, 1, 3, 8
	5	GCSE-Med ... to Degree	2, 1, 1, 3, 1-5
	6	GCSE-Med ... to Subdegree	2, 1, 1, 3, 6
	7	GCSE-Med ... to Continuing	2, 1, 1, 3, 7
	8	GCSE-Med ... to Withdrawal	2, 1, 1, 3, 8
	9	GCSE-Low ... to Degree	3, 1, 1, 3, 1-5
	10	GCSE-Low ... to Subdegree	3, 1, 1, 3, 6
	11	GCSE-Low ... to Continuing	3, 1, 1, 3, 7
	12	GCSE-Low ... to Withdrawal	3, 1, 1, 3, 8
	13	GCSE-None ... to Degree	4, 3, 1, 3, 1-5
	14	GCSE-None ... to Subdegree	4, 3, 1, 3, 6
	15	GCSE-None ... to Continuing	4, 3, 1, 3, 7
	16	GCSE-None ... to Withdrawal	4, 3, 1, 3, 8
	17	A-levels (<2) ... to Degree	1, 1, 2, 3, 1-5
	18	A-levels (<2) ... to Subdegree	1, 1, 2, 3, 6
	19	A-levels (<2) ... to Continuing	1, 1, 2, 3, 7
	20	A-levels (<2) ... to Withdrawal	1, 1, 2, 3, 8
	21	GCSE-Med ... A-levels (2+) ... to Degree	2, 3, 1, 3, 1-5
	22	GCSE-Med ... A-levels (2+) ... to Subdegree	2, 3, 1, 3, 6
	23	GCSE-Med ... A-levels (2+) ... to Continuing	2, 3, 1, 3, 7
	24	GCSE-Med ... A-levels (2+) ... to Withdrawal	2, 3, 1, 3, 8
	25	GCSE-Med ... A-levels (<2) ... to Degree	2, 3, 2, 3, 1-5
	26	GCSE-Med ... A-levels (<2) ... to Subdegree	2, 3, 2, 3, 6
	27	GCSE-Med ... A-levels (<2) ... to Continuing	2, 3, 2, 3, 7
	28	GCSE-Med ... A-levels (<2) ... to Withdrawal	2, 3, 2, 3, 8
	29	GCSE-Low ... A-levels (2+) ... to Degree	3, 3, 1, 3, 1-5
	30	GCSE-Low ... A-levels (2+) ... to Subdegree	3, 3, 1, 3, 6
	31	GCSE-Low ... A-levels (2+) ... to Continuing	3, 3, 1, 3, 7
	32	GCSE-Low ... A-levels (2+) ... to Withdrawal	3, 3, 1, 3, 8
	33	GCSE-Low ... A-levels (<2) ... to Degree	3, 3, 2, 3, 1-5

	34	GCSE-Low ... A-levels (<2) ... to Subdegree	3, 3, 2, 3, 6
	35	GCSE-Low ... A-levels (<2) ... to Continuing	3, 3, 2, 3, 7
	36	GCSE-Low ... A-levels (<2) ... to Withdrawal	3, 3, 2, 3, 8
	0	All other pathways	Other

The same W2 to W4 parts of the nine 'Traditional and Alternative Academic Pathways to HE Entry' (i.e., HEpath2) were then separately connected to (a) the four 'Apprenticeship degree registration pathways' from W5 to W6 and (b) the four 'Apprenticeship subdegree registration pathways' from W5 to W6. This procedure yielded both the 36 'Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Degree Registration and HE Attainment by Age 22' (i.e., HEpath15) and the 36 'Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Subdegree Registration and HE Attainment by Age 22' (i.e., HEpath16) shown in Tables B6 and B7, respectively.

*Table B6. Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Degree Registration and HE Attainment by Age 22.*

Name	Value	Label	Coding Pattern
HEpath15		Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Degree Registration and HE Attainment by Age 22	W2, W3, W4, W5, W6
	1	Traditional pathway to Degree	1, 1, 1, 2, 1-5
	2	Traditional pathway to Subdegree	1, 1, 1, 2, 6
	3	Traditional pathway to Continuing	1, 1, 1, 2, 7
	4	Traditional pathway to Withdrawal	1, 1, 1, 2, 8
	5	GCSE-Med ... to Degree	2, 1, 1, 2, 1-5
	6	GCSE-Med ... to Subdegree	2, 1, 1, 2, 6
	7	GCSE-Med ... to Continuing	2, 1, 1, 2, 7
	8	GCSE-Med ... to Withdrawal	2, 1, 1, 2, 8
	9	GCSE-Low ... to Degree	3, 1, 1, 2, 1-5
	10	GCSE-Low ... to Subdegree	3, 1, 1, 2, 6
	11	GCSE-Low ... to Continuing	3, 1, 1, 2, 7
	12	GCSE-Low ... to Withdrawal	3, 1, 1, 2, 8
	13	GCSE-None ... to Degree	4, 3, 1, 2, 1-5
	14	GCSE-None ... to Subdegree	4, 3, 1, 2, 6
	15	GCSE-None ... to Continuing	4, 3, 1, 2, 7
	16	GCSE-None ... to Withdrawal	4, 3, 1, 2, 8
	17	A-levels (<2) ... to Degree	1, 1, 2, 2, 1-5
	18	A-levels (<2) ... to Subdegree	1, 1, 2, 2, 6
	19	A-levels (<2) ... to Continuing	1, 1, 2, 2, 7
	20	A-levels (<2) ... to Withdrawal	1, 1, 2, 2, 8
	21	GCSE-Med ... A-levels (2+) ... to Degree	2, 3, 1, 2, 1-5
	22	GCSE-Med ... A-levels (2+) ... to Subdegree	2, 3, 1, 2, 6
	23	GCSE-Med ... A-levels (2+) ... to Continuing	2, 3, 1, 2, 7
	24	GCSE-Med ... A-levels (2+) ... to Withdrawal	2, 3, 1, 2, 8
	25	GCSE-Med ... A-levels (<2) ... to Degree	2, 3, 2, 2, 1-5
	26	GCSE-Med ... A-levels (<2) ... to Subdegree	2, 3, 2, 2, 6
	27	GCSE-Med ... A-levels (<2) ... to Continuing	2, 3, 2, 2, 7

	28	GCSE-Med ... A-levels (<2) ... to Withdrawal	2, 3, 2, 2, 8
	29	GCSE-Low ... A-levels (2+) ... to Degree	3, 3, 1, 2, 1-5
	30	GCSE-Low ... A-levels (2+) ... to Subdegree	3, 3, 1, 2, 6
	31	GCSE-Low ... A-levels (2+) ... to Continuing	3, 3, 1, 2, 7
	32	GCSE-Low ... A-levels (2+) ... to Withdrawal	3, 3, 1, 2, 8
	33	GCSE-Low ... A-levels (<2) ... to Degree	3, 3, 2, 2, 1-5
	34	GCSE-Low ... A-levels (<2) ... to Subdegree	3, 3, 2, 2, 6
	35	GCSE-Low ... A-levels (<2) ... to Continuing	3, 3, 2, 2, 7
	36	GCSE-Low ... A-levels (<2) ... to Withdrawal	3, 3, 2, 2, 8
	0	All other pathways	Other

Table B7. Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Subdegree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath16		Traditional and Alternative Academic Pathways from KS4 to HE Apprenticeship Subdegree Registration and HE Attainment by Age 22	W2, W3, W4, W5, W6
	1	Traditional pathway to Degree	1, 1, 1, 4, 1-5
	2	Traditional pathway to Subdegree	1, 1, 1, 4, 6
	3	Traditional pathway to Continuing	1, 1, 1, 4, 7
	4	Traditional pathway to Withdrawal	1, 1, 1, 4, 8
	5	GCSE-Med ... to Degree	2, 1, 1, 4, 1-5
	6	GCSE-Med ... to Subdegree	2, 1, 1, 4, 6
	7	GCSE-Med ... to Continuing	2, 1, 1, 4, 7
	8	GCSE-Med ... to Withdrawal	2, 1, 1, 4, 8
	9	GCSE-Low ... to Degree	3, 1, 1, 4, 1-5
	10	GCSE-Low ... to Subdegree	3, 1, 1, 4, 6
	11	GCSE-Low ... to Continuing	3, 1, 1, 4, 7
	12	GCSE-Low ... to Withdrawal	3, 1, 1, 4, 8
	13	GCSE-None ... to Degree	4, 3, 1, 4, 1-5
	14	GCSE-None ... to Subdegree	4, 3, 1, 4, 6
	15	GCSE-None ... to Continuing	4, 3, 1, 4, 7
	16	GCSE-None ... to Withdrawal	4, 3, 1, 4, 8
	17	A-levels (<2) ... to Degree	1, 1, 2, 4, 1-5
	18	A-levels (<2) ... to Subdegree	1, 1, 2, 4, 6
	19	A-levels (<2) ... to Continuing	1, 1, 2, 4, 7
	20	A-levels (<2) ... to Withdrawal	1, 1, 2, 4, 8
	21	GCSE-Med ... A-levels (2+) ... to Degree	2, 3, 1, 4, 1-5
	22	GCSE-Med ... A-levels (2+) ... to Subdegree	2, 3, 1, 4, 6
	23	GCSE-Med ... A-levels (2+) ... to Continuing	2, 3, 1, 4, 7
	24	GCSE-Med ... A-levels (2+) ... to Withdrawal	2, 3, 1, 4, 8
	25	GCSE-Med ... A-levels (<2) ... to Degree	2, 3, 2, 4, 1-5
	26	GCSE-Med ... A-levels (<2) ... to Subdegree	2, 3, 2, 4, 6
	27	GCSE-Med ... A-levels (<2) ... to Continuing	2, 3, 2, 4, 7
	28	GCSE-Med ... A-levels (<2) ... to Withdrawal	2, 3, 2, 4, 8
	29	GCSE-Low ... A-levels (2+) ... to Degree	3, 3, 1, 4, 1-5
	30	GCSE-Low ... A-levels (2+) ... to Subdegree	3, 3, 1, 4, 6
	31	GCSE-Low ... A-levels (2+) ... to Continuing	3, 3, 1, 4, 7

	32	GCSE-Low ... A-levels (2+) ... to Withdrawal	3, 3, 1, 4, 8
	33	GCSE-Low ... A-levels (<2) ... to Degree	3, 3, 2, 4, 1-5
	34	GCSE-Low ... A-levels (<2) ... to Subdegree	3, 3, 2, 4, 6
	35	GCSE-Low ... A-levels (<2) ... to Continuing	3, 3, 2, 4, 7
	36	GCSE-Low ... A-levels (<2) ... to Withdrawal	3, 3, 2, 4, 8
	0	All other pathways	Other

Following the same logic used to construct the full set of academic pathways from W2 to W6 described above, we next constructed the analogous 'vocational' and 'apprenticeship' pathways from W2 to W6 by connecting (a) the W2 to W4 parts of the eight 'Vocational Pathways to HE Entry' (i.e., HEpath3) to the four sets of W5 to W6 'Degree registration', 'Subdegree registration', 'Apprenticeship degree registration' and 'Apprenticeship subdegree registration' pathways and (b) the W2 to W4 parts of the eight 'Apprenticeship Pathways to HE Entry' (i.e., HEpath4) to the four sets of W5 to W6 'Degree registration', 'Subdegree registration', 'Apprenticeship degree registration' and 'Apprenticeship subdegree registration' pathways. The resulting four sets of W2 to W6 vocational pathways to HE outcomes are shown in Tables B8 to B11, and the resulting four sets of W2 to W6 apprenticeship pathways to HE outcomes are shown in Tables B12 to B15.

*Table B8. Vocational Pathways from KS4 to HE Degree Registration and HE Attainment by Age 22.*

Name	Value	Label	Coding Pattern
HEpath17		Vocational Pathways via HE Degree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 2/3, 3, 1, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 2/3, 3, 1, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 2/3, 3, 1, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 2/3, 3, 1, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 2/3, 4, 1, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 2/3, 4, 1, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 2/3, 4, 1, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 2/3, 4, 1, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 2/3, 3, 1, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 2/3, 3, 1, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 2/3, 3, 1, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 2/3, 3, 1, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 2/3, 4, 1, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 2/3, 4, 1, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 2/3, 4, 1, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 2/3, 4, 1, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 2/3, 3, 1, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 2/3, 3, 1, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 2/3, 3, 1, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 2/3, 3, 1, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 2/3, 4, 1, 1-5

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	22	GCSE-Low, NVQ-L2-, Subdegree	3, 2/3, 4, 1, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 2/3, 4, 1, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 2/3, 4, 1, 8
	25	GCSE-None, NVQ-L3, Degree	4, 2/3, 3, 1, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 2/3, 3, 1, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 2/3, 3, 1, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 2/3, 3, 1, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 2/3, 4, 1, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 2/3, 4, 1, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 2/3, 4, 1, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 2/3, 4, 1, 8
	0	All other pathways	Other

Table B9. Vocational Pathways from KS4 to HE Subdegree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath18		Vocational Pathways via HE Subdegree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 2/3, 3, 3, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 2/3, 3, 3, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 2/3, 3, 3, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 2/3, 3, 3, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 2/3, 4, 3, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 2/3, 4, 3, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 2/3, 4, 3, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 2/3, 4, 3, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 2/3, 3, 3, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 2/3, 3, 3, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 2/3, 3, 3, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 2/3, 3, 3, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 2/3, 4, 3, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 2/3, 4, 3, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 2/3, 4, 3, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 2/3, 4, 3, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 2/3, 3, 3, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 2/3, 3, 3, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 2/3, 3, 3, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 2/3, 3, 3, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 2/3, 4, 3, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 2/3, 4, 3, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 2/3, 4, 3, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 2/3, 4, 3, 8
	25	GCSE-None, NVQ-L3, Degree	4, 2/3, 3, 3, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 2/3, 3, 3, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 2/3, 3, 3, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 2/3, 3, 3, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 2/3, 4, 3, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 2/3, 4, 3, 6

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	31	GCSE-None, NVQ-L2-, Continuing	4, 2/3, 4, 3, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 2/3, 4, 3, 8
	0	All other pathways	Other

Table B10. Vocational Pathways from KS4 to HE Apprenticeship Degree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath19		Vocational Pathways via HE Apprenticeship Degree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 2/3, 3, 2, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 2/3, 3, 2, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 2/3, 3, 2, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 2/3, 3, 2, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 2/3, 4, 2, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 2/3, 4, 2, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 2/3, 4, 2, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 2/3, 4, 2, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 2/3, 3, 2, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 2/3, 3, 2, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 2/3, 3, 2, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 2/3, 3, 2, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 2/3, 4, 2, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 2/3, 4, 2, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 2/3, 4, 2, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 2/3, 4, 2, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 2/3, 3, 2, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 2/3, 3, 2, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 2/3, 3, 2, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 2/3, 3, 2, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 2/3, 4, 2, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 2/3, 4, 2, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 2/3, 4, 2, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 2/3, 4, 2, 8
	25	GCSE-None, NVQ-L3, Degree	4, 2/3, 3, 2, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 2/3, 3, 2, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 2/3, 3, 2, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 2/3, 3, 2, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 2/3, 4, 2, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 2/3, 4, 2, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 2/3, 4, 2, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 2/3, 4, 2, 8
	0	All other pathways	Other

**Table B11. Vocational Pathways from KS4 to HE Apprenticeship Subdegree Registration and HE Attainment by Age 22.**

Name	Value	Label	Coding Pattern
HEpath20		Vocational Pathways via HE Apprenticeship Subdegree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 2/3, 3, 4, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 2/3, 3, 4, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 2/3, 3, 4, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 2/3, 3, 4, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 2/3, 4, 4, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 2/3, 4, 4, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 2/3, 4, 4, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 2/3, 4, 4, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 2/3, 3, 4, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 2/3, 3, 4, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 2/3, 3, 4, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 2/3, 3, 4, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 2/3, 4, 4, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 2/3, 4, 4, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 2/3, 4, 4, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 2/3, 4, 4, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 2/3, 3, 4, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 2/3, 3, 4, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 2/3, 3, 4, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 2/3, 3, 4, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 2/3, 4, 4, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 2/3, 4, 4, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 2/3, 4, 4, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 2/3, 4, 4, 8
	25	GCSE-None, NVQ-L3, Degree	4, 2/3, 3, 4, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 2/3, 3, 4, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 2/3, 3, 4, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 2/3, 3, 4, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 2/3, 4, 4, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 2/3, 4, 4, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 2/3, 4, 4, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 2/3, 4, 4, 8
	0	All other pathways	Other

**Table B12. Apprenticeship Pathways from KS4 to HE Degree Registration and HE Attainment by Age 22.**

Name	Value	Label	Coding Pattern
HEpath21		Apprenticeship Pathways via HE Degree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 3/4, 5, 1, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 3/4, 5, 1, 6

	3	GCSE-High, NVQ-L3, Continuing	1, 3/4, 5, 1, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 3/4, 5, 1, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 3/4, 6, 1, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 3/4, 6, 1, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 3/4, 6, 1, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 3/4, 6, 1, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 3/4, 5, 1, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 3/4, 5, 1, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 3/4, 5, 1, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 3/4, 5, 1, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 3/4, 6, 1, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 3/4, 6, 1, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 3/4, 6, 1, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 3/4, 6, 1, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 3/4, 5, 1, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 3/4, 5, 1, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 3/4, 5, 1, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 3/4, 5, 1, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 3/4, 6, 1, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 3/4, 6, 1, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 3/4, 6, 1, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 3/4, 6, 1, 8
	25	GCSE-None, NVQ-L3, Degree	4, 3/4, 5, 1, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 3/4, 5, 1, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 3/4, 5, 1, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 3/4, 5, 1, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 3/4, 6, 1, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 3/4, 6, 1, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 3/4, 6, 1, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 3/4, 6, 1, 8
	0	All other pathways	Other

Table B13. Apprenticeship Pathways from KS4 to HE Subdegree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath22		Apprenticeship Pathways via HE Subdegree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 3/4, 5, 3, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 3/4, 5, 3, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 3/4, 5, 3, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 3/4, 5, 3, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 3/4, 6, 3, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 3/4, 6, 3, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 3/4, 6, 3, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 3/4, 6, 3, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 3/4, 5, 3, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 3/4, 5, 3, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 3/4, 5, 3, 7



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	12	GCSE-Med, NVQ-L3, Withdrawn	2, 3/4, 5, 3, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 3/4, 6, 3, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 3/4, 6, 3, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 3/4, 6, 3, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 3/4, 6, 3, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 3/4, 5, 3, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 3/4, 5, 3, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 3/4, 5, 3, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 3/4, 5, 3, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 3/4, 6, 3, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 3/4, 6, 3, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 3/4, 6, 3, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 3/4, 6, 3, 8
	25	GCSE-None, NVQ-L3, Degree	4, 3/4, 5, 3, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 3/4, 5, 3, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 3/4, 5, 3, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 3/4, 5, 3, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 3/4, 6, 3, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 3/4, 6, 3, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 3/4, 6, 3, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 3/4, 6, 3, 8
	0	All other pathways	Other

Table B14. Apprenticeship Pathways from KS4 to HE Apprenticeship Degree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath23		Apprenticeship Pathways via HE Apprenticeship Degree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 3/4, 5, 2, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 3/4, 5, 2, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 3/4, 5, 2, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 3/4, 5, 2, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 3/4, 6, 2, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 3/4, 6, 2, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 3/4, 6, 2, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 3/4, 6, 2, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 3/4, 5, 2, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 3/4, 5, 2, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 3/4, 5, 2, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 3/4, 5, 2, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 3/4, 6, 2, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 3/4, 6, 2, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 3/4, 6, 2, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 3/4, 6, 2, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 3/4, 5, 2, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 3/4, 5, 2, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 3/4, 5, 2, 7

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	20	GCSE-Low, NVQ-L3, Withdrawn	3, 3/4, 5, 2, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 3/4, 6, 2, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 3/4, 6, 2, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 3/4, 6, 2, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 3/4, 6, 2, 8
	25	GCSE-None, NVQ-L3, Degree	4, 3/4, 5, 2, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 3/4, 5, 2, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 3/4, 5, 2, 7
	28	GCSE-None, NVQ-L3, Withdrawn	4, 3/4, 5, 2, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 3/4, 6, 2, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 3/4, 6, 2, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 3/4, 6, 2, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 3/4, 6, 2, 8
	0	All other pathways	Other

Table B15. Apprenticeship Pathways from KS4 to HE Apprenticeship Subdegree Registration and HE Attainment by Age 22.

Name	Value	Label	Coding Pattern
HEpath24		Apprenticeship Pathways via HE Apprenticeship Subdegree Registration to the End of HE	W2, W3, W4, W5, W6
	1	GCSE-High, NVQ-L3, Degree	1, 3/4, 5, 4, 1-5
	2	GCSE-High, NVQ-L3, Subdegree	1, 3/4, 5, 4, 6
	3	GCSE-High, NVQ-L3, Continuing	1, 3/4, 5, 4, 7
	4	GCSE-High, NVQ-L3, Withdrawn	1, 3/4, 5, 4, 8
	5	GCSE-High, NVQ-L2-, Degree	1, 3/4, 6, 4, 1-5
	6	GCSE-High, NVQ-L2-, Subdegree	1, 3/4, 6, 4, 6
	7	GCSE-High, NVQ-L2-, Continuing	1, 3/4, 6, 4, 7
	8	GCSE-High, NVQ-L2-, Withdrawn	1, 3/4, 6, 4, 8
	9	GCSE-Med, NVQ-L3, Degree	2, 3/4, 5, 4, 1-5
	10	GCSE-Med, NVQ-L3, Subdegree	2, 3/4, 5, 4, 6
	11	GCSE-Med, NVQ-L3, Continuing	2, 3/4, 5, 4, 7
	12	GCSE-Med, NVQ-L3, Withdrawn	2, 3/4, 5, 4, 8
	13	GCSE-Med, NVQ-L2-, Degree	2, 3/4, 6, 4, 1-5
	14	GCSE-Med, NVQ-L2-, Subdegree	2, 3/4, 6, 4, 6
	15	GCSE-Med, NVQ-L2-, Continuing	2, 3/4, 6, 4, 7
	16	GCSE-Med, NVQ-L2-, Withdrawn	2, 3/4, 6, 4, 8
	17	GCSE-Low, NVQ-L3, Degree	3, 3/4, 5, 4, 1-5
	18	GCSE-Low, NVQ-L3, Subdegree	3, 3/4, 5, 4, 6
	19	GCSE-Low, NVQ-L3, Continuing	3, 3/4, 5, 4, 7
	20	GCSE-Low, NVQ-L3, Withdrawn	3, 3/4, 5, 4, 8
	21	GCSE-Low, NVQ-L2-, Degree	3, 3/4, 6, 4, 1-5
	22	GCSE-Low, NVQ-L2-, Subdegree	3, 3/4, 6, 4, 6
	23	GCSE-Low, NVQ-L2-, Continuing	3, 3/4, 6, 4, 7
	24	GCSE-Low, NVQ-L2-, Withdrawn	3, 3/4, 6, 4, 8
	25	GCSE-None, NVQ-L3, Degree	4, 3/4, 5, 4, 1-5
	26	GCSE-None, NVQ-L3, Subdegree	4, 3/4, 5, 4, 6
	27	GCSE-None, NVQ-L3, Continuing	4, 3/4, 5, 4, 7

	28	GCSE-None, NVQ-L3, Withdrawn	4, 3/4, 5, 4, 8
	29	GCSE-None, NVQ-L2-, Degree	4, 3/4, 6, 4, 1-5
	30	GCSE-None, NVQ-L2-, Subdegree	4, 3/4, 6, 4, 6
	31	GCSE-None, NVQ-L2-, Continuing	4, 3/4, 6, 4, 7
	32	GCSE-None, NVQ-L2-, Withdrawn	4, 3/4, 6, 4, 8
	0	All other pathways	Other

## 6. Simplified Pathway Variables

In order to simplify the presentation of the relationships between the educational pathways from the end of KS4 through FE and on to the four main outcome variables used in the pathway analyses (i.e., 'HE Entry', 'Age 18/19 HE Entry', 'Entry into a Top-tier HE Institution' and 'Degree Attainment by age 22'), four simplified educational pathway variables were created. Each simplified pathway variable is focused on one of these four main outcome variables and, as described below, combines pathway information from several of the previously described academic, vocational and apprenticeship pathways variables.

The first simplified pathway variable, 'Simplified Educational Pathways to HE Entry', (i.e., SimP1) was constructed by combining information from HEpath2 (i.e., 'Traditional and Alternative Academic Pathways to HE Entry'), HEpath3 (i.e., 'Vocational Pathways to HE Entry') and HEpath4 (i.e., 'Apprenticeship Pathways to HE Entry'). For example, if a young person followed the traditional academic pathway from KS4 to HE entry (i.e., HEpath1 = 1), then they were assigned a '1' on the 'Simplified Educational Pathways to HE Entry' variable (i.e., SimP1 = 1, where 1 = Traditional). Similarly, if a young person followed a vocational pathway from KS4 to HE entry (i.e., HEpath3 = 1-8), then they were assigned a '3' on the 'Simplified Educational Pathways to HE Entry' variable (i.e., SimP1 = 3, where 3 = Vocational). The complete construction of the 'Simplified Educational Pathways to HE Entry' variable is summarised in Table B16.

*Table B16. Simplified Educational Pathways to HE Entry.*

Name	Value	Label	Coding Pattern
SimP1		Simplified Educational Pathways to HE Entry	
	1	Traditional academic	HEpath2 = 1
	2	Alternative academic	HEpath2 = 2-9
	3	Vocational	HEpath3 = 1-8
	4	Apprenticeship	HEpath4 = 1-8
	0	Other	HEpath2, HEpath3, or HEpath4 = 0

The second simplified pathway variable, 'Simplified Educational Pathways to Age 18/19 HE Entry' (i.e., SimP2), was similarly constructed by combining information from

HEpath6 (i.e., ‘Traditional and Alternative Academic Pathways to Age 18/19 HE Entry’), HEpath7 (i.e., ‘Vocational Pathways to Age 18/19 HE Entry’) and HEpath8 (i.e., ‘Apprenticeship Pathways to Age 18/19 HE Entry’). The complete construction of the ‘Simplified Educational Pathways to Age 18/19 HE Entry’ variable is summarised in Table B17.

*Table B17. Simplified Educational Pathways to Age 18/19 HE Entry.*

Name	Value	Label	Coding Pattern
SimP2		Simplified Educational Pathways to Age 18/19 HE Entry	
	1	Traditional academic	HEpath6 = 1
	2	Alternative academic	HEpath6 = 2–9
	3	Vocational	HEpath7 = 1–8
	4	Apprenticeship	HEpath8 = 1–8
	0	Other	HEpath6, HEpath7, or HEpath8 = 0

The third simplified pathway variable, ‘Simplified Educational Pathways to a Top-tier HE Institution’ (i.e., SimP3), was constructed by combining information from HEpath10 (i.e., ‘Traditional and Alternative Academic Pathways to a Top-tier HE Institution’), HEpath11 (i.e., ‘Vocational Pathways to a Top-tier HE Institution’) and HEpath12 (i.e., ‘Apprenticeship Pathways to a Top-tier HE Institution’). The complete construction of the ‘Simplified Educational Pathways to a Top-tier HE Institution’ variable is summarised in Table B18.

*Table B18. Simplified Educational Pathways to a Top-tier HE Institution.*

Name	Value	Label	Coding Pattern
SimP3		Simplified Educational Pathways to a Top-tier HE Institution	
	1	Traditional academic	HEpath10 = 1
	2	Alternative academic	HEpath10 = 2–9
	3	Vocational	HEpath11 = 1–8
	4	Apprenticeship	HEpath12 = 1–8
	0	Other	HEpath10, HEpath11, or HEpath12 = 0

The fourth simplified pathway variable, ‘Simplified Educational Pathways to a Degree (by age 22)’ (i.e., SimP4), was constructed by combining information from across each of the HEpath13 to HEpath24 variables. The construction of this ‘SimP4’ variable was more complicated than the construction of the previously described simplified pathway variables because of the many different pathways through HE that could result in

attaining a first (Level 6) degree. For example, a young person may have registered for only a subdegree upon HE entry but have gone on to attain a first degree in any case. Consequently, where coding SimP4, any HE pathway was included that resulted in a first degree, regardless of the young person’s initial registration. The complete construction of the ‘Simplified Educational Pathways to a Degree (by age 22)’ variable is summarised in Table B19.

*Table B19. Simplified Educational Pathways to a Degree (by age 22).*

Name	Value	Label	Coding Pattern
SimP4		Simplified Educational Pathways to a Degree (by age 22)	
	1	Traditional academic	HEpath13 = 1
	2	Alternative academic	HEpath13 = 5, 9, 13, 17, 21, 25, 29, 33; HEpath14, HEpath15, HEpath16 = 1, 5, 9, 13, 17, 21, 25, 29, 33
	3	Vocational	HEpath17, HEpath18, HEpath19, HEpath20 = 1, 5, 9, 13, 17, 21, 25, 29
	4	Apprenticeship	HEpath21, HEpath22, HEpath23, HEpath24 = 1, 5, 9, 13, 17, 21, 25, 29
	0	Other	HEpath13 through HEpath24 = 0