



**Evidence for
Excellence in
Education**

Report

Analysis of NPD, ILR and HESA Datasets for The Design and Technology Association

National Foundation for Educational
Research (NFER)



Analysis of NPD, ILR and HESA Datasets for The Design and Technology Association

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1 Introduction

The National Foundation for Educational Research (NFER) was commissioned by The Design and Technology Association to undertake analysis of newly available datasets matched at the pupil level. These included the National Pupil Database (NPD), the Individualised Learner Record (ILR) and a dataset from the Higher Education Statistics Authority (HESA) that identified students enrolled in university. These datasets had been matched using a unique pupil identifier and allowed the possibility of tracking individual pupils through subject choice at Key Stage 4 (KS4) and their GCSEs, through to A level and Level 3 qualifications taken in school sixth form and colleges of further education and on to enrolment at university. The initial aim was to try and identify 'viable pathways'.

Due to the complexities of the datasets two sets of analyses were undertaken. The first looked at students that were identified as taking A level qualifications, either in school sixth forms or colleges of further education, and the second analysis looked at students that appeared on the ILR and took a qualification other than A levels. For both sets of students further analysis looked at subjects studied at Key Stage 4, the types of subject studied at A level or at college, and whether these students went on to university.

The following report, as agreed, is primarily a set of tables identifying groups of students and their subject choices at Key Stage 4 and Key Stage 5 and whether they enrolled at university.

2 Analysis of National Pupil Database and A Level Data

In 2008/2009 the NPD identified 569615 pupils on role in Year 11 and who attended state maintained schools, not including special schools or Pupil Referral Units (PRUs). Of these, 200469 (35.2 per cent) were further identified as having sat an A level in at least one subject.

The following students studied D&T A level subjects:

KS5 Food Technology	1033 students
KS5 Systems	187 students
KS5 Production Design	8509 students

For this cohort 9708 students took a D&T relevant A level in 2010/11 (21 students took two of these subjects). The table below identifies that not all students who were entered for an A level in a D&T relevant subject studied a D&T subject at KS4. In fact only 77 per cent of students that took an A level also studied D&T subjects at KS4.

Table 1 Key Stage 4 pupils taking D&T subjects by KS5 pupils taking D&T subjects

		Studied D&T subject at KS4			
		No	Yes	Total	
Did D&T subject at KS5 A level	No	Count	333407	226500	559907
		% within KS5	59.5	40.5	100.0
	Yes	% within KS4	99.3	96.8	98.3
		Count	2262	7446	9708
		% within KS5	23.3	76.7	100.0
		% within KS4	0.7	3.2	1.7
Total	Count	335669	233946	569615	
	% within KS5	58.9	41.1	100.0	
	% within KS4	100.0	100.0	100.0	

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 2 below identifies the subjects these two groups studied at KS4. All students, or almost all, took maths and English at GCSE, and other than the differences for D&T GCSE subjects, the proportion of students taking each subject are broadly similar. A slightly higher proportion of students who didn't take a D&T subject at GCSE took Art & Design. Furthermore, and perhaps not surprisingly, languages were not a strong subject choice at GCSE, other than French or German, whilst geography was a popular choice with almost 40 per cent of students choosing this subject. Table 2 contains the main subjects studied and a full list can be found in Appendix A.

Table 2 Key Stage 4 subjects studied by students who took D&T A levels

		Studied D&T subject at KS4		
		No	Yes	N
English Literature	Count	2075	7030	9105
	% within KS4	92.0	94.4	
Design and Technology: Electronic Products	Count	0	336	336
	% within KS4	0.0	4.5	
Design and Technology: Food Technology	Count	0	1032	1032
	% within KS4	0.0	13.9	
Design and Technology: Graphic Products	Count	0	3187	3187
	% within KS4	0.0	42.8	
Design and Technology: Resistant Materials Technology	Count	0	2780	2780
	% within KS4	0.0	37.3	
Design and Technology: Systems & Control	Count	0	247	247
	% within KS4	0.0	3.3	
Design and Technology: Textiles Technology	Count	0	317	317
	% within KS4	0.0	4.3	
Art and Design	Count	967	2836	3803
	% within KS4	42.9	38.1	
History	Count	742	2367	3109
	% within KS4	32.9	31.8	
Geography	Count	861	2918	3779
	% within KS4	38.2	39.2	
French	Count	747	2481	3228
	% within KS4	33.1	33.3	
Religious Studies	Count	740	2416	3156
	% within KS4	32.8	32.4	
Maths	Count	2255	7445	9700
	% within KS4	100.0	100.0	
English	Count	2256	7442	9698
	% within KS4	100.0	99.9	
Single Award Science	Count	1673	5527	7200
	% within KS4	74.2	74.2	
Total	Count	2256	7446	9702

Percentages and totals are based on all respondents.

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

How do these subject choices compare with other A level students and the subjects they choose to study? The following table identifies all GCSE subjects studied by pupils identified as taking A levels in 2010/11. The table is divided into those that took a D&T A level subject and those that did not study these subjects. Table 3 contains a summary of the main subjects studied and a full list can be found in Appendix B.

Table 3 Key Stage 4 subjects studied by students taking A levels

		A Levels		Total
		Non D&T A levels	D&T A levels	
English Literature	Count	182818	9105	191923
	% within KS5	95.9	93.8%	
Design and Technology: Electronic Products	Count	4357	336	4693
	% within KS5	2.3	3.5	
Design and Technology: Food Technology	Count	20228	1032	21260
	% within KS5	10.6	10.6	
Design and Technology: Graphic Products	Count	19677	3187	22864
	% within KS5	10.3	32.8	
Design and Technology: Resistant Materials Technology	Count	14698	2780	17478
	% within KS5	7.7	28.7	
Design and Technology: Systems & Control	Count	2328	247	2575
	% within KS5	1.2	2.5%	
Design and Technology: Textiles Technology	Count	15868	317	16185
	% within KS5	8.3	3.3	
Art and Design	Count	55127	3803	58930
	% within KS5	28.9	39.2	
Information Technology	Count	23037	1301	24338
	% within KS5	12.1	13.4	
Information Technology SC	Count	22248	1297	23545
	% within KS5	11.7	13.4	
Maths	Count	190271	9700	199971
	% within KS5	99.8	100.0	
English	Count	190502	9698	200200
	% within KS5	99.9	100.0	
Fine Art	Count	15852	1189	17041
	% within KS5	8.3	12.3	
Total*	Count	190604	9702	200306

Percentages and totals are based on all respondents.

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

The following table identifies the proportion of students that took a D&T GCSE subject and who went on to study a D&T subject at A level.

Table 4 Conversion¹ percentage of Key Stage 4 subject to Key Stage 5 A level

GCSE Subject	Percentage who studied a D&T A level
Electronic Products	7.2
Food Technology	4.9
Graphic products	13.9
Resistant Materials	15.9
Systems and Control	9.6
Textiles Technology	2.0

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Whilst the highest conversion percentages are for some of the D&T GCSE subjects other subjects worthy of mention are;

Information Technology 5.4 per cent

Fine Art 7.0 per cent

Business Studies 5.2 per cent

Art & Design 6.5 per cent

Table 5 below identifies the A levels studied by students that did, and did not study, D&T subjects at KS4. This table is a summary of the main A level subjects and a full list can be found in Appendix C. Whilst, as expected, a higher proportion of students that studied D&T at GCSE went on to do D&T A levels, a small but potentially significant group of students studied a D&T A level without prior studies at KS4. For students that did study D&T at KS4 lower proportions went on to study A level subjects like English Literature and History. Interestingly, a higher proportion studied Physics at A level, whilst slightly lower proportions studied Biology and Chemistry. Table 5 is a summary of the full table which can be found in Appendix C.

¹ Conversion identifies the proportion of students that took a D&T GCSE subject and go on to study a D&T A level.

Table 5 A Level subjects taken in 2010/11 by D&T subjects studied at GCSE

A levels Studied		Studied D&T subject at KS4		N
		No	Yes	
Biology	Count	23227	15185	38412
	% within KS4	19.8	18.3	
Chemistry	Count	17557	11430	28987
	% within KS4	15.0	13.8	
Physics	Count	10801	8912	19713
	% within KS4	9.2	10.7	
Maths	Count	28245	20156	48401
	% within KS4	24.1	24.3	
History	Count	21689	11792	33481
	% within KS4	18.5	14.2	
Psychology	Count	24667	17083	41750
	% within KS4	21.0	20.6	
Sociology	Count	12889	8794	21683
	% within KS4	11.0	10.6	
English Literature	Count	20550	12408	32958
	% within KS4	17.5	14.9	
General Studies	Count	19897	14893	34790
	% within KS4	16.9	17.9	
DT - Food	Count	138	895	1033
	% within KS4	0.1	1.1	
DT - Systems	Count	18	169	187
	% within KS4	0.0	0.2	
DT - Production	Count	2109	6400	8509
	% within KS4	1.8	7.7	
Total*	Count	117423	83046	200469

Percentages and totals are based on all respondents.

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

As students can take more than one A level, Table 6 below identifies all the A level subjects studied by the cohort of students that took D&T A levels. This has been further broken down by those that took D&T GCSEs and those that didn't. Table 6 is a summary of the the full table that can be found in Appendix D.

Table 6 All A level subjects studied by students that took D&T A levels

		Studied D&T subject at KS4		Total
		No	Yes	
Physics	Count	296	969	1265
	% within KS4	13.1	13.0	
Maths	Count	433	1548	1981
	% within KS4	19.1	20.8	
IT	Count	114	363	477
	% within KS4	5.0	4.9	
Business Studies	Count	203	685	888
	% within KS4	9.0	9.2	
Fine Art	Count	256	692	948
	% within KS4	11.3	9.3	
Geography	Count	221	779	1000
	% within KS4	9.8	10.5	
History	Count	141	504	645
	% within KS4	6.2	6.8	
Psychology	Count	148	603	751
	% within KS4	6.5	8.1	
Media Film & TV	Count	177	615	792
	% within KS4	7.8	8.3	
General Studies	Count	339	1177	1516
	% within KS4	15.0	15.8	
DT - Food	Count	138	895	1033
	% within KS4	6.1	12.0	
DT - Systems	Count	18	169	187
	% within KS4	0.8	2.3	
DT - Production	Count	2109	6400	8509
	% within KS4	93.2	86.0	
Total	Count	2262	7446	9708

Percentages and totals are based on all respondents.

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Of the 200469 students identified on the NPD that had studied A levels in 2010/11, 77.1 per cent enrolled in Higher Education.

Table 7 Students appearing on HESA dataset²

		A Levels		Total	
		Non D&T A levels	D&T A levels		
Enrolled in HE	Count	42910	2915	45825	
	No	% within HE	93.6	6.4	100.0
		% within KS5	22.5%	30.0	22.9
	Yes	Count	147855	6790	154645
		% within HE	95.6	4.4	100.0
		% within KS5	77.5	70.0	77.1
Total	Count	190765	9705	200470	
		% within HE	95.2	4.8	100.0
		% within KS5	100.0	100.0	100.0

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data

Table 8 identifies the broad category of degree studied by the 154645 students that appear on the Higher Education dataset. It is interesting to note that whilst students who did D&T A levels took a wide range of degree subjects; for example, 26.4 per cent took a creative arts & design degree and 18.5 per cent took an engineering degree. These percentages compare to 9.3 per cent and 4.8 per cent respectively for students that did not take D&T A level subjects.

² To conform with rounding protocols all counts involving ILR and HESA data are rounded to the nearest multiple of 5

Table 8 – Type of degree studied by type of A levels studied

		A Levels		Total
		Non D&T A levels	D&T A levels	
Architecture, building & planning	Count	1890	625	2515
	% within Subject	75.1	24.9	100.0
	% within A Levels	1.3	9.2	1.6
Biological sciences	Count	20240	360	20600
	% within Subject	98.3	1.7	100.0
	% within A Levels	13.7	5.3	13.3
Business & administrative studies	Count	14935	635	15570
	% within Subject	95.9	4.1	100.0
	% within A Levels	10.1	9.3	10.1
Computer science	Count	4785	345	5130
	% within Subject	93.2	6.8	100.0
	% within A Levels	3.2	5.1	3.3
Creative arts & design	Count	13790	1795	15585
	% within Subject	88.5	11.5	100.0
	% within A Levels	9.3	26.4	10.1
Engineering & technology	Count	7090	1255	8345
	% within Subject	85.0	15.0	100.0
	% within A Levels	4.8	18.5	5.4
Physical sciences	Count	9820	230	10050
	% within Subject	97.7	2.3	100.0
	% within A Levels	6.6	3.4	6.5
Total	Count	147855	6790	154645
	% within Subject	95.6%	4.4	100.0
	% within A Levels	100.0%	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 8 above shows that a higher proportion of students that studied D&T A levels enrolled in a creative arts and design degree course, than students who didn't study a D&T A level, 26 per cent compared to 9 per cent. Higher proportions were also seen for architecture and engineering degrees. Whilst higher proportions of students did go on to study the above mentioned degrees, it should be noted that in terms of raw numbers more students studied these degrees from the group that did not study D&T A levels. Table 8 is a summary of the full table that can be found in Appendix E.

Whilst Table 8 identifies a possible association between subjects studied at A level and degree choice Table 9 looks to identify if the same associations exist in the GCSE subjects studied. Other than possibly a degree in creative arts & design, whether a student took D&T subjects at GCSE does not seem to be associated with degree choice. Table 9 is a summary of a full table that can be found in Appendix F.

Table 9 Type of degree studied by type of GCSE studied

		Studied D&T subject at KS4		Total
		No	Yes	
Architecture, building & planning	Count	1195	1320	2515
	within KS4	1.3	2.1	1.6
Biological sciences	Count	12635	7970	20605
	within KS4	13.8	12.7	13.3
Business & administrative studies	Count	9135	6435	15570
	within KS4	9.9	10.2	10.1
Creative arts & design	Count	8140	7445	15585
	within KS4	8.9	11.9	10.1
Engineering & technology	Count	4195	4150	8345
	within KS4	4.6	6.6	5.4
Historical & philosophical studies	Count	4615	2530	7145
	within KS4	5.0	4.0	4.6
Languages	Count	8020	4295	12315
	within KS4	8.7	6.8	8.0
Mathematical sciences	Count	3330	2130	5460
	within KS4	3.6	3.4	3.5
Physical sciences	Count	5885	4170	10055
	within KS4	6.4	6.6	6.5
Social studies	Count	10020	5755	15775
	within KS4	10.9	9.2	10.2
Subjects allied to medicine	Count	6445	4300	10745
	within KS4	7.0	6.8	6.9
Total	Count	91850	62805	154655
	% within KS4	100.0	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

3 Analysis of Individualised Learner Record and HESA Data

Earlier analysis of the 2008/09 Year 11 cohort identified that 200469 students had been entered for at least one A level subject. Of the remaining students a data-matching exercise was carried out looking at further entries on the ILR for the academic years 2009/10 and 2010/11. These years correspond to the A level years used in the previous analysis and correspond to Years 12 and 13. Following advice from the NPD data team, who confirmed that any student that had achieved an academic A level qualification would appear on the NPD dataset, irrespective of whether the student was in a school or a further education college, these qualifications were removed from the ILR.

Analysis allowed us to categorize students into the following three groups.

1. Has A levels but also took a qualification listed on the ILR.
2. Does not have A levels but has an AS or Applied level qualification and took a qualification that appeared on the ILR.
3. Does not have any A, AS or Applied level qualifications but did take at least one qualification that appeared on the ILR.

The following table identifies the number of students in each of these categories.

Table 10 Student type

Student type	Number of students	Percentage
Type 1	72380	19.1
Type 2	14990	3.9
Type 3	292180	77.0

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Initial analysis identified 200469 students had taken at least one A level. From the above table we know that 72380 of these students also took a non A level qualification. This therefore means that 128089 students just took A level qualifications. Between the two sets of analysis approximately 507640 students have been identified as appearing on a post-16 dataset.

Table 11 identifies courses enrolled on by the students identified in Table 10. This does not identify whether they completed the course, or grade achieved, just that they enrolled on it. The 379555 students identified on the ILR had learner aims for 1627255 different qualifications. This works out to approximately 4.3 enrolments per student. This ranged between 1.5 qualifications for students that also studied A level subjects, to 2.8 qualifications for students that had AS or applied A levels and 5.0 qualifications for students that had no A, AS or applied level qualifications.

The majority of enrolments for all types of students were on courses that are categorised as Foundations for Learning and Life. Three percent of the qualifications studied by students

who did not take any A, AS or applied level qualifications were an engineering qualification, 4.2 per cent were building & construction qualifications and 2.3 per cent crafts and design qualifications. Other areas included 4.7 per cent of qualifications being sports, leisure and recreation and 3.6 per cent being in the service enterprises. Table 11 is a summary of the full table that can be found in Appendix G

Table 11 Subject categories studied at FE and appear on the ILR by student type (Non A level subjects)

		Type of student			Total
		Has A Levels	No A Levels, has AS or Applied Level	No A, AS or Applied level qualifications	
Foundations for Learning and Life	Count	52330	14225	685460	752015
	% within type of student	46.9	34.3	46.5	46.2
Preparation for Work	Count	2725	1420	68525	72670
	% within type of student	2.4	3.4	4.6	4.5
Mathematics and Statistics	Count	5030	2895	20630	28555
	% within type of student	4.5	7.0	1.4	1.8
Engineering	Count	325	450	44355	45130
	% within type of student	0.3	1.1	3.0	2.8
Building and Construction	Count	175	205	61530	61910
	% within type of student	0.2	0.5	4.2	3.8
Crafts, Creative Arts and Design	Count	2400	1390	33745	37535
	% within type of student	2.2	3.3	2.3	2.3
Total*	Count	111620	41510	1474125	1627255
	% within type of student	100.0	100.0	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 12 Students that did not study A, AS or Applied level qualifications. Subject categories studied at FE and appear on ILR, by D&T subjects studied at Key Stage 4

		Did student take KS4 D & T subject		Total
		No	Yes	
Foundations for Learning and Life	Count	404630	280830	685460
	% within Studied D&T at KS4	47.2	45.5	46.5
Preparation for Work	Count	43310	25215	68525
	% within Studied D&T at KS4	5.1	4.1	4.6
Engineering	Count	21865	22490	44355
	% within Studied D&T at KS4	2.6	3.6	3.0
Building and Construction	Count	32545	28985	61530
	% within Studied D&T at KS4	3.8	4.7	4.2
Crafts, Creative Arts and Design	Count	17040	16705	33745
	% within Studied D&T at KS4	2.0	2.7	2.3
Total*	Count	857220	616905	1474125
	% within Studied D&T at KS4	100.0%	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

As previously seen in the analysis of students taking A levels, in Table 12 we see that students who had studied D&T subjects at KS4 choose a slightly higher proportion of engineering and building and construction courses (3.6 per cent and 4.7 per cent compared to 2.6 per cent and 3.8 per cent). Of these qualifications a large proportion are further categorised as vocationally related qualifications. For those students that studied D&T at KS4 19.5 per cent of the courses chosen were this type of qualification, compared to 18.0 per cent for students that did not take D&T subjects at KS4. Further analysis identifies that for those students that took a vocationally related qualification, and who studied D&T at KS4, 3.0 per cent of the courses studied were for a diploma in Art & design, 2.7 per cent were for a certificate in electrotechnical technology and 2.2 per cent were for a certificate in basic plumbing studies. These compare to 1.7 per cent, 1.9 per cent and 1.7 per cent respectively for students that did not take D&T subjects at KS4. A full table of subjects studied can be found in Appendix H

Enrolling in Higher Education

Table 13 Proportion of students enrolling in HE

		Enrolled in Higher Education		
		No	Yes	Total
Has A Levels	Count	19030	53355	72385
	% within HE	26.3	73.7	100.0
No A Levels, has AS or Applied Level	Count	8970	6020	14990
	% within HE	59.8	40.2	100.0
No A, AS or Applied level qualifications	Count	255685	36495	292180
	% within HE	87.5	12.5	100.0
Total	Count	283685	95870	379555
	% within HE	74.7	25.3	100.0

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 13 identifies the proportion of students that appear on the ILR who also appear on the HESA dataset in the academic years 2011/12 or 2012/13. For those students that studied A levels, as well as qualifications listed on the ILR, 74 per cent went on to further studies within an HE setting. This is broadly similar to the A level analysis and these students would have appeared in that analysis. For those students that had AS and applied level qualifications 40 per cent went on to HE and for those students that had no A, AS or applied qualifications only 13 per cent went onto HE.

Table 14 below identifies for those students that had no A, AS or applied qualifications whether they went to HE and if they took D&T subjects at Key Stage 4. It can be seen that a slightly higher percentage, 13.0 per cent compared to 12.1 per cent, went to HE after studying D&T subjects at KS4. Table 15 identifies the degree categorisation for those students who went into HE and creative art and design degrees would appear to be favoured more by those students that studied D&T subjects at KS4. A full table can be found in Appendix I.

Table 14: Enrolling in HE by D&T subjects at KS4 for students with no A, AS or Applied level qualifications

		Enrolled in Higher Education			
		No	Yes	Total	
Studied D&T at KS4	Count	149550	20580	170130	
	No	% within KS4	87.9	12.1	100.0
		% within HE	58.5	56.4	58.2
	Count	106135	15915	122050	
	Yes	% within KS4	87.0	13.0	100.0
		% within HE	41.5	43.6	41.8
Total	Count	255685	36495	292180	
	% within KS4	87.5	12.5	100.0	
	% within HE	100.0	100.0	100.0	

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 15 Degree categorisation by KS4 studies for students with no A, AS or Applied level qualifications

		Studied D&T at KS4		
		No	Yes	Total
Architecture, building & planning	Count	375	395	770
		% within Studied D&T at KS4	1.8	2.5
Creative arts & design	Count	3305	3235	6540
		% within Studied D&T at KS4	16.1	20.3
Engineering & technology	Count	1460	1250	2710
		% within Studied D&T at KS4	7.1	7.8
-Total	Count	20580	15910	36490
		% within Studied D&T at KS4	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 16 Enrolling in HE by D&T subjects at Key Stage 4 for students with no A levels but did have AS or Applied level qualifications

			Enrolled in Higher Education		
			No	Yes	
Studied D&T at KS4		Count	5140	3680	8820
	No	% within KS4	58.3	41.7	100.0
		% within HE	57.3	61.1	58.8
	Yes	Count	3825	2345	6170
		% within KS4	62.0	38.0	100.0
		% within HE	42.7	38.9	41.2
Total		Count	8970	6020	14990
Total	% within KS4	59.8	40.2	100.0	
	% within HE	100.0	100.0	100.0	

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Table 13 identified 14990 students that had not studied A levels but did have AS and applied qualifications, as well as some qualifications listed on the ILR, and the proportion of these students that enrolled into HE. Table 16 further identifies whether these students took D&T subjects at KS4. A slightly lower proportion, 38 per cent compared to 42 per cent, went onto HE after studying D&T subjects at KS4.

Table 17 below identifies the degree subject categorisation for the 6025 from Table 16 that went into HE. Students that studied D&T subjects at KS4 would appear to again favour degrees categorized as creative arts & design. A full table can be found in Appendix J

Table 17 Degree categorisation by KS4 studies for students with no A levels but did have AS or Applied level qualifications

		Studied D&T at KS4		
		No	Yes	
Biological Sciences	Count	525	325	850
	% within Studied D&T at KS4	14.3	14.0	14.2
Business & Administrative Studies	Count	680	395	1075
	% within Studied D&T at KS4	18.5	16.9	17.9
Computer Science	Count	210	150	360
	% within Studied D&T at KS4	5.7	6.3	6.0
Creative Arts & Design	Count	295	250	545
	% within Studied D&T at KS4	8.0	10.7	9.0
Education	Count	155	90	245
	% within Studied D&T at KS4	4.2	3.8	4.1
Engineering & Technology	Count	180	125	305
	% within Studied D&T at KS4	4.9	5.2	5.1
Mathematical Sciences	Count	65	55	120
	% within Studied D&T at KS4	1.7	2.3	1.9
Physical Sciences	Count	135	85	220
	% within Studied D&T at KS4	3.7	3.6	3.6
Social Studies	Count	395	200	595
	% within Studied D&T at KS4	10.8	8.6	9.9
Subjects Allied To Medicine	Count	280	210	490
	% within Studied D&T at KS4	7.6	8.9	8.1
Total*	Count	3680	2345	6020
	% within Studied D&T at KS4	100.0	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

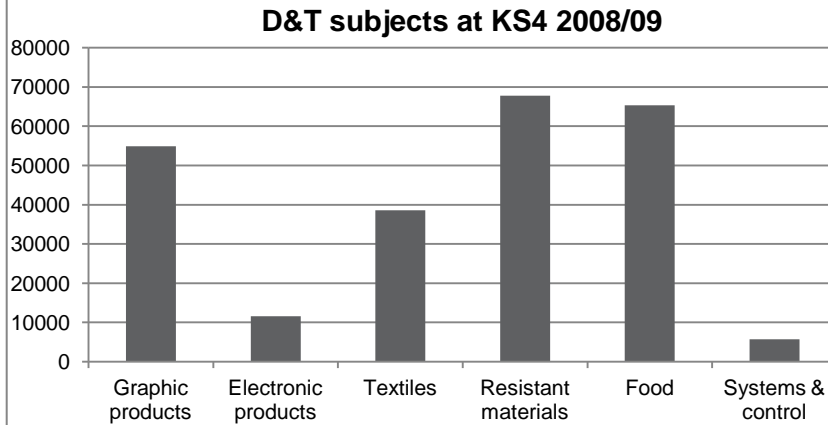
Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

4 Summary

The following two pages present relevant information from the report in an alternative format.

Progression routes from Design & Technology GCSE, A-level and Level 3 qualifications

41% (233946) of the 2008/09 GCSE cohort took a D & T subject at GCSE



The pupils who took D&T subjects at GCSE enrolled in 243901 subjects. Therefore 9955 took more than one D&T subject at GCSE.



Of the 569615 students in the 08/09 GCSE cohort 35% went on to study A levels

Of the 200470 that went on to do A levels only 5% (9708) studied D&T A levels

Of the students that took D&T A levels 77% took D&T at KS4, 23% did not

The 9708 students* that studied a D&T A level took:

Food Technology	1033
Systems	187
Production Design	8509

*21 students took more than one A level



What did they study at university?

The 6790 students who took a D&T A level enrolled on the following degree studies:

Architecture	9.2%
Creative Arts & Design	26.4%
Engineering	18.5%

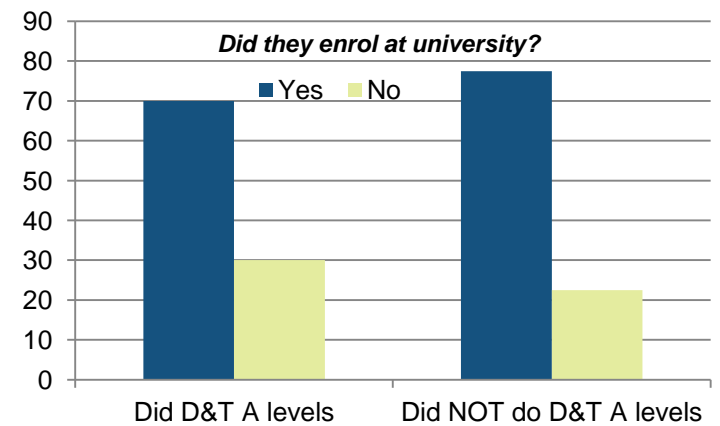
Languages	1.9%
Biological sciences	5.3%

The 147855 students who did not take a D&T A level enrolled on the following degree studies:

Architecture	1.3%
Creative Arts & Design	9.3%
Engineering	4.8%

Languages	8.2%
Biological sciences	13.7%

Of the 200470 students that studied A levels in 2010/11, 77.1% enrolled in university



Source: Data from matching exercise undertaken by NFER for the Design & Technology Association. Analysis based on 2008/09 National Pupil Database, 2009/10-2010/11 KS5 data and Individualised Learner Record data and data supplied by HESA for HE cohorts in 2011/12 and 2012/13.

This document is a confidential draft

67% (379553) of the GCSE cohort in 2008/09 appeared on the Individualised Learner Record in 2009/10 or 2010/11

41.8% had studied a D&T subject at KS4

3.6% of the subjects studied by these pupils were in the **engineering** category (this compares to 2.6% for students that did not take D&T subjects at KS4)

4.7 % were in the **Building & Construction** category (compared to 3.8% for students that did not take D&T subjects at KS4)

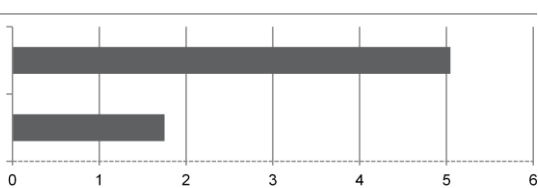
These 292180 students took 1474125 learning aims in 2009/10 and 2010/11

2.7 % were in the **Creative arts & design** category (compared to 2.0% for students that did not take D&T subjects at KS4)

The further education (FE) and skills sector in England uses the Individualised Learner Record (ILR) to collect data about learners in the sector and the learning undertaken by each of them.

	Number of students	
Students that appear on the NPD and the ILR	87385	23.0%
Students that only appear on the ILR	292180	77.0%
Total	379565	100

A student with just ILR Quals



Average number of qualifications that appear on ILR in 2009/10 and 2010/11

Of these, 12.5% (36495 students) enrolled at university (12% for students who had not studied D&T at KS4 and 13% for students that had

The 15915 students who took a D&T GCSE enrolled on the following degree studies:

Architecture	2.5%
Creative Arts & Design	20.3%
Engineering	7.8%

Languages	0.9%
Biological sciences	13.5%

The 20580 students who did not take a D&T GCSE subject enrolled on the following degree studies:

Architecture	1.8%
Creative Arts & Design	16.1%
Engineering	7.1%

Languages	1.2%
Biological sciences	14.6%

Source: Data from matching exercise undertaken by NFER for the Design & Technology Association. Analysis based on 2008/09 National Pupil Database, 2009/10-2010/11 KS5 data and Individualised Learner Record data and data supplied by HESA for HE cohorts in 2011/12 and 2012/13.

Appendix A Key Stage 4 subjects studied by students taking D&T A levels

		Studied D&T subject at KS4		
		No	Yes	N
English Literature	Count	2075	7030	9105
	% within KS4	92.0	94.4	
Design and Technology: Electronic Products	Count	0	336	336
	% within KS4	0.0	4.5	
Design and Technology: Food Technology	Count	0	1032	1032
	% within KS4	0.0	13.9	
Design and Technology: Graphic Products	Count	0	3187	3187
	% within KS4	0.0	42.8	
Design and Technology: Resistant Materials Technology	Count	0	2780	2780
	% within KS4	0.0	37.3	
Design and Technology: Systems & Control	Count	0	247	247
	% within KS4	0.0	3.3	
Design and Technology: Textiles Technology	Count	0	317	317
	% within KS4	0.0	4.3	
Art and Design	Count	967	2836	3803
	% within KS4	42.9	38.1	
History	Count	742	2367	3109
	% within KS4	32.9	31.8	
Geography	Count	861	2918	3779
	% within KS4	38.2	39.2	
French	Count	747	2481	3228
	% within KS4	33.1	33.3	
German	Count	377	1320	1697
	% within KS4	16.7	17.7	
Business Studies	Count	386	1287	1673
	% within KS4	17.1	17.3	
Religious Studies	Count	740	2416	3156
	% within KS4	32.8	32.4	
Grade achieved in Short GCSE Religious Studies	Count	930	3309	4239
	% within KS4	41.2	44.4	
Physical Education	Count	536	1787	2323
	% within KS4	23.8	24.0	
Physics	Count	477	1603	2080
	% within KS4	21.1	21.5	

		Studied D&T subject at KS4		N
		No	Yes	
Chemistry	Count	472	1583	2055
	% within KS4	20.9	21.3	
Biological Science	Count	479	1622	2101
	% within KS4	21.2	21.8	
Drama	Count	181	622	803
	% within KS4	8.0	8.4	
Information Technology	Count	285	1016	1301
	% within KS4	12.6	13.6	
Information Technology	Count	239	1058	1297
	% within KS4	10.6	14.2	
Spanish	Count	254	785	1039
	% within KS4	11.3	10.5	
Music	Count	217	677	894
	% within KS4	9.6	9.1	
Maths	Count	2255	7445	9700
	% within KS4	100.0	100.0	
English	Count	2256	7442	9698
	% within KS4	100.0	99.9	
Single Award Science	Count	1673	5527	7200
	% within KS4	74.2	74.2	
Statistics	Count	359	1129	1488
	% within KS4	15.9	15.2	
Media, Film and Television Studies	Count	222	546	768
	% within KS4	9.8	7.3	
Fine Art	Count	305	884	1189
	% within KS4	13.5	11.9	
Office Technology	Count	113	393	506
	% within KS4	5.0	5.3	
Home Economics: Child Development	Count	20	90	110
	% within KS4	0.9	1.2	
Italian	Count	16	62	78
	% within KS4	0.7	0.8	
Chinese	Count	11	34	45
	% within KS4	0.5	0.5	
Social Science Citizenship	Count	370	1180	1550
	% within KS4	16.4	15.8	

		Studied D&T subject at KS4		N
		No	Yes	
Vocational GCSE Double Award Applied Business	Count	52	133	185
	% within KS4	2.3	1.8	
Vocational GCSE Double Award Health and Social Care	Count	19	68	87
	% within KS4	0.8	0.9	
Vocational GCSE Double Award Leisure and Tourism	Count	15	38	53
	% within KS4	0.7	0.5	
Total*	Count	2256	7446	9702

Percentages and totals are based on all respondents. Table is a multi reponse table so percentages will not total 100.

*The following subjects had 10 or less students in both categories; Dutch, Modern Greek, Portuguese, Arabic, Bengali, Gujarati, Modern Hebrew, Persian

The following subjects were deleted as one cell had a low count and omission of only a single cell would still have allowed the value to be calculated; Japanese, Panjabi, Polish, Russian, Turkish, Urdu

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix B Key Stage 4 subjects studied by students taking A levels

		A Levels		
		Non D&T A levels	D&T A levels	Total
English Literature	Count	182818	9105	191923
	% within ks5	95.9	93.8	
Design and Technology: Electronic Products	Count	4357	336	4693
	% within ks5	2.3	3.5	
Design and Technology: Food Technology	Count	20228	1032	21260
	% within ks5	10.6	10.6	
Design and Technology: Graphic Products	Count	19677	3187	22864
	% within ks5	10.3	32.8	
Design and Technology: Resistant Materials Technology	Count	14698	2780	17478
	% within ks5	7.7	28.7	
Design and Technology: Systems & Control	Count	2328	247	2575
	% within ks5	1.2	2.5	
Design and Technology: Textiles Technology	Count	15868	317	16185
	% within ks5	8.3	3.3	
Art and Design	Count	55127	3803	58930
	% within ks5	28.9	39.2	
History	Count	89694	3109	92803
	% within ks5	47.1	32.0	
Geography	Count	70523	3779	74302
	% within ks5	37.0	39.0	
French	Count	79155	3228	82383
	% within ks5	41.5	33.3	
German	Count	36242	1697	37939
	% within ks5	19.0	17.5	
Business Studies	Count	30784	1673	32457
	% within ks5	16.2	17.2	
Religious Studies	Count	72426	3156	75582
	% within ks5	38.0	32.5	
Grade achieved in Short GCSE Religious Studies	Count	77109	4239	81348
	% within ks5	40.5	43.7	
Physical Education	Count	46529	2323	48852
	% within ks5	24.4	23.9	
Physics	Count	48826	2080	50906
	% within ks5	25.6	21.4	

		A Levels		
		Non D&T A levels	D&T A levels	Total
Chemistry	Count	48938	2055	50993
	% within ks5	25.7	21.2	
Biological Science	Count	49873	2101	51974
	% within ks5	26.2	21.7	
Drama	Count	33027	803	33830
	% within ks5	17.3	8.3	
Information Technology	Count	23037	1301	24338
	% within ks5	12.1	13.4	
Information Technology SC	Count	22248	1297	23545
	% within ks5	11.7	13.4	
Spanish	Count	26358	1039	27397
	% within ks5	13.8	10.7	
Music	Count	22682	894	23576
	% within ks5	11.9	9.2	
Maths	Count	190271	9700	199971
	% within ks5	99.8	100.0	
English	Count	190502	9698	200200
	% within ks5	99.9	100.0	
Single Award Science	Count	134653	7200	141853
	% within ks5	70.6	74.2	
Statistics	Count	36696	1488	38184
	% within ks5	19.3	15.3	
Media, Film and Television Studies	Count	20874	768	21642
	% within ks5	11.0	7.9	
Fine Art	Count	15852	1189	17041
	% within ks5	8.3	12.3	
Office Technology	Count	10326	506	10832
	% within ks5	5.4	5.2	
Home Economics: Child Development	Count	4068	110	4178
	% within ks5	2.1	1.1	
Italian	Count	1786	78	1864
	% within ks5	0.9	0.8	
Modern Greek	Count	222	11	233
	% within ks5	0.1	0.1	
Portuguese	Count	316	10	326
	% within ks5	0.2	0.1	

		A Levels		
		Non	D&T A	Total
		D&T A	D&T A	
		levels	levels	
Arabic	Count	653	12	665
	% within ks5	0.3	0.1	
Chinese	Count	917	45	962
	% within ks5	0.5	0.5	
Gujarati	Count	501	11	512
	% within ks5	0.3	0.1	
Japanese	Count	540	22	562
	% within ks5	0.3	0.2	
Panjabi	Count	492	16	508
	% within ks5	0.3	0.2	
Polish	Count	569	33	602
	% within ks5	0.3	0.3	
Russian	Count	552	16	568
	% within ks5	0.3	0.2	
Turkish	Count	369	12	381
	% within ks5	0.2	0.1	
Urdu	Count	1415	16	1431
	% within ks5	0.7	0.2	
Social Science Citizenship	Count	32003	1550	33553
	% within ks5	16.8	16.0	
Vocational GCSE Double Award Applied Business	Count	4840	185	5025
	% within ks5	2.5	1.9	
Vocational GCSE Double Award Health and Social Care	Count	4045	87	4132
	% within ks5	2.1	0.9	
Vocational GCSE Double Award Leisure and Tourism	Count	1394	53	1447
	% within ks5	0.7	0.5	
Total*	Count	190604	9702	200306

Percentages and totals are based on all respondents. Table is a multi reponse table so percentages will not total 100.

The following subjects were deleted as one cell had a low count and omission of only a single cell would still have allowed the value to be calculated; Dutch, Bengali, Modern Hebrew, Persian

*The following subjects had 10 or less students in both categories; Double science

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix C A Levels subjects taken in 2010/11 by D&T subjects studied at GCSE

A levels Studied		Studied D&T subject at		N
		KS4		
		No	Yes	
Biology	Count	23227	15185	38412
	% within KS4	19.8	18.3	
Chemistry	Count	17557	11430	28987
	% within KS4	15.0	13.8	
Physics	Count	10801	8912	19713
	% within KS4	9.2	10.7	
Electronics	Count	322	499	821
	% within KS4	0.3	0.6	
Environmental Science	Count	562	468	1030
	% within KS4	0.5	0.6	
Geology	Count	688	569	1257
	% within KS4	0.6	0.7	
Maths	Count	28245	20156	48401
	% within KS4	24.1	24.3	
Maths Pure	Count	35	19	54
	% within KS4	0.0	0.0	
Maths Statistics	Count	274	190	464
	% within KS4	0.2	0.2	
Maths Further	Count	4166	2772	6938
	% within KS4	3.5	3.3	
Additional Maths	Count	12	10	22
	% within KS4	0.0	0.0	
Computer Studies	Count	1463	1400	2863
	% within KS4	1.2	1.7	
IT	Count	3783	2975	6758
	% within KS4	3.2	3.6	
Business Studies	Count	10726	7999	18725
	% within KS4	9.1	9.6	
Business Studies & Economics	Count	754	646	1400
	% within KS4	0.6	0.8	
Art & Design	Count	2884	2673	5557
	% within KS4	2.5	3.2	
Art & Design - Graphics	Count	1471	1941	3412
	% within KS4	1.3	2.3	
Art & Design – Photography	Count	4578	4426	9004
	% within KS4	3.9	5.3	

A levels Studied		Studied D&T subject at		N
		KS4		
		No	Yes	
Art & Design - Textiles	Count	1135	1921	3056
	% within KS4	1.0	2.3	
Art & Design – 3 D Studies	Count	148	208	356
	% within KS4	0.1	0.3	
Art & Design – Critical studies	Count	72	65	137
	% within KS4	0.1	0.1	
Fine Art	Count	5461	5143	10604
	% within KS4	4.7	6.2	
History Of Art	Count	125	104	229
	% within KS4	0.1	0.1	
Geography	Count	11595	8058	19653
	% within KS4	9.9	9.7	
World Development	Count	209	150	359
	% within KS4	0.2	0.2	
History	Count	21689	11792	33481
	% within KS4	18.5	14.2	
Economics	Count	7463	4419	11882
	% within KS4	6.4	5.3	
RE	Count	7935	4837	12772
	% within KS4	6.8	5.8	
Archaeology	Count	170	120	290
	% within KS4	0.1	0.1	
Law	Count	6535	4041	10576
	% within KS4	5.6	4.9	
Logic/Philosophy	Count	1335	772	2107
	% within KS4	1.1	0.9	
Government Politics	Count	5685	2879	8564
	% within KS4	4.8	3.5	
Psychology	Count	24667	17083	41750
	% within KS4	21.0	20.6	
Sociology	Count	12889	8794	21683
	% within KS4	11.0	10.6	
Social Science Citizenship	Count	363	225	588
	% within KS4	0.3	0.3	
English	Count	7989	5161	13150
	% within KS4	6.8	6.2	
English Language	Count	11117	7915	19032
	% within KS4	9.5	9.5	
English Literature	Count	20550	12408	32958
	% within KS4	17.5	14.9	

A levels Studied		Studied D&T subject at		N
		KS4		
		No	Yes	
Drama	Count	7447	3850	11297
	% within KS4	6.3	4.6	
Communication Studies	Count	854	593	1447
	% within KS4	0.7	0.7	
Performing Studies	Count	736	376	1112
	% within KS4	0.6	0.5	
Media Film & TV	Count	11563	8526	20089
	% within KS4	9.8	10.3	
Film Studies	Count	3127	2095	5222
	% within KS4	2.7	2.5	
Dutch	Count	31	17	48
	% within KS4	0.0	0.0	
French	Count	4527	2347	6874
	% within KS4	3.9	2.8	
German	Count	1885	1026	2911
	% within KS4	1.6	1.2	
Italian	Count	231	103	334
	% within KS4	0.2	0.1	
Modern Greek	Count	16	11	27
	% within KS4	0.0	0.0	
Portuguese	Count	102	38	140
	% within KS4	0.1	0.0	
Spanish	Count	2508	1081	3589
	% within KS4	2.1	1.3	
Arabic	Count	83	48	131
	% within KS4	0.1	0.1	
Bengali	Count	16	12	28
	% within KS4	0.0	0.0	
Chinese	Count	123	99	222
	% within KS4	0.1	0.1	
Japanese	Count	60	33	93
	% within KS4	0.1	0.0	
Panjabi	Count	31	14	45
	% within KS4	0.0	0.0	
Polish	Count	168	77	245
	% within KS4	0.1	0.1	
Russian	Count	113	51	164
	% within KS4	0.1	0.1	

A levels Studied		Studied D&T subject at		N
		KS4		
		No	Yes	
Turkish	Count	96	62	158
	% within KS4	0.1	0.1	
Urdu	Count	138	63	201
	% within KS4	0.1	0.1	
Persian	Count	34	23	57
	% within KS4	0.0	0.0	
Ancient History	Count	268	135	403
	% within KS4	0.2	0.2	
Classical Civilisation	Count	1237	752	1989
	% within KS4	1.1	0.9	
Latin	Count	215	63	278
	% within KS4	0.2	0.1	
Other Classics	Count	11	0	11
	% within KS4	0.0	0.0	
Music	Count	2601	1310	3911
	% within KS4	2.2	1.6	
Music Technology	Count	1442	999	2441
	% within KS4	1.2	1.2	
PE	Count	8026	5328	13354
	% within KS4	6.8	6.4	
Dance	Count	1313	664	1977
	% within KS4	1.1	0.8	
Accounting	Count	1491	920	2411
	% within KS4	1.3	1.1	
General Studies	Count	19897	14893	34790
	% within KS4	16.9	17.9	
Critical Thinking	Count	812	460	1272
	% within KS4	0.7	0.6	
DT - Food	Count	138	895	1033
	% within KS4	0.1	1.1	
DT - Systems	Count	18	169	187
	% within KS4	0.0	0.2	
DT - Production	Count	2109	6400	8509
	% within KS4	1.8	7.7	
Total*	Count	117423	83046	200469

Percentages and totals are based on all respondents. Table is a multi reponse table so percentages will not total 100.

*The following subject had less than 10 students in both categories; Gujarati.

The following subjects were omitted from the table as the count in the 'Yes' cell was less than 10; Greek, Modern Hebrew. Due to suppression rules all data is omitted so that individuals cells cannot be calculated.

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix D A levels subjects studied by students that took D&T A levels

		Studied D&T subject at KS4		Total
		No	Yes	
Biology	Count	116	500	616
	% within KS4	5.1	6.7	
Chemistry	Count	65	244	309
	% within KS4	2.9	3.3	
Physics	Count	296	969	1265
	% within KS4	13.1	13.0	
Electronics	Count	17	33	50
	% within KS4	0.8	0.4	
Environmental Science	Count	8	26	34
	% within KS4	0.4	0.3	
Geology	Count	12	40	52
	% within KS4	0.5	0.5	
Maths	Count	433	1548	1981
	% within KS4	19.1	20.8	
Maths Further	Count	26	92	118
	% within KS4	1.1	1.2	
Computer Studies	Count	36	102	138
	% within KS4	1.6	1.4	
IT	Count	114	363	477
	% within KS4	5.0	4.9	
Business Studies	Count	203	685	888
	% within KS4	9.0	9.2	
Business Studies & Economics	Count	17	62	79
	% within KS4	0.8	0.8	
Art & Design	Count	127	410	537
	% within KS4	5.6	5.5	
Art & Design - Graphics	Count	53	106	159
	% within KS4	2.3	1.4	
Art & Design - Photography	Count	102	362	464
	% within KS4	4.5	4.9	
Art & Design - Textiles	Count	15	32	47
	% within KS4	0.7	0.4	

		Studied D&T subject at KS4		Total
		No	Yes	
Fine Art	Count	256	692	948
	% within KS4	11.3	9.3	
Geography	Count	221	779	1000
	% within KS4	9.8	10.5	
History	Count	141	504	645
	% within KS4	6.2	6.8	
Economics	Count	63	174	237
	% within KS4	2.8	2.3	
RE	Count	47	226	273
	% within KS4	2.1	3.0	
Law	Count	26	90	116
	% within KS4	1.1	1.2	
Government Politics	Count	24	73	97
	% within KS4	1.1	1.0	
Psychology	Count	148	603	751
	% within KS4	6.5	8.1	
Sociology	Count	80	268	348
	% within KS4	3.5	3.6	
English	Count	45	209	254
	% within KS4	2.0	2.8	
English Language	Count	88	348	436
	% within KS4	3.9	4.7	
English Literature	Count	130	463	593
	% within KS4	5.7	6.2	
Drama	Count	42	139	181
	% within KS4	1.9	1.9	
Media Film & TV	Count	177	615	792
	% within KS4	7.8	8.3	
Film Studies	Count	23	95	118
	% within KS4	1.0	1.3	
French	Count	21	71	92
	% within KS4	0.9	1.0	
German	Count	13	42	55
	% within KS4	0.6	0.6	

		Studied D&T subject at KS4		Total
Spanish	Count	13	40	53
	% within KS4	0.6	0.5	
Music	Count	18	68	86
	% within KS4	0.8	0.9	
Music Technology	Count	27	75	102
	% within KS4	1.2	1.0	
PE	Count	116	451	567
	% within KS4	5.1	6.1	
General Studies	Count	339	1177	1516
	% within KS4	15.0	15.8	
DT - Food	Count	138	895	1033
	% within KS4	6.1	12.0	
DT - Systems	Count	18	169	187
	% within KS4	0.8	2.3	
DT - Production	Count	2109	6400	8509
	% within KS4	93.2	86.0	
Total*	Count	2262	7446	9708

Percentages and totals are based on all respondents. Table is a multi reponse table so percentages will not total 100.

*The following subjects had less than 10 students in both categories; Art & Design – Critical studies, World development, History of Art, Archaeology, Dutch, Italian, Portuguese, Bengali, Chinese, Japanese, Modern Hebrew, Polish, Russian, Turkish, Urdu, Persian, Latin

The following subjects were omitted from the table as the count in the 'No' cell was less than 10; Environmental Science, Maths Statistics, Art & Design 3D Studies, Logic/Philosophy, Social Science Citizenship, Communication, Performing Studies, Classical Civilization, Dance, Accounting, Critical Thinking. Due to suppression rules all data is omitted so that individuals cells cannot be calculated

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix E Type of degree studied by type of A level studied

		A Levels		Total
		Non D&T A levels	D&T A levels	
No HE data	Count	540	85	625
	% within Subject	86.2	13.8	100.0
	% within A Levels	0.4	1.3	0.4
Agriculture & related subjects	Count	1110	155	1265
	% within Subject	87.7	12.3	100.0
	% within A Levels	0.8	2.3	0.8
Architecture, building & planning	Count	1890	625	2515
	% within Subject	75.1	24.9	100.0
	% within A Levels	1.3	9.2	1.6
Biological sciences	Count	20240	360	20600
	% within Subject	98.3	1.7	100.0
	% within A Levels	13.7	5.3	13.3
Business & administrative studies	Count	14935	635	15570
	% within Subject	95.9	4.1	100.0
	% within A Levels	10.1	9.3	10.1
Combined	Count	1405	40	1445
	% within Subject	97.2	2.8	100.0
	% within A Levels	1.0	0.6	0.9
Computer science	Count	4785	345	5130
	% within Subject	93.2	6.8	100.0
	% within A Levels	3.2	5.1	3.3
Creative arts & design	Count	13790	1795	15585
	% within Subject	88.5	11.5	100.0
	% within A Levels	9.3	26.4	10.1
Education	Count	5060	185	5245
	% within Subject	96.4	3.6	100.0
	% within A Levels	3.4	2.8	3.4
Engineering & technology	Count	7090	1255	8345
	% within Subject	85.0	15.0	100.0
	% within A Levels	4.8	18.5	5.4
Historical & philosophical studies	Count	7055	85	7140
	% within Subject	98.8	1.2	100.0
	% within A Levels	4.8	1.3	4.6

		A Levels		Total
		Non D&T A levels	D&T A levels	
Languages	Count	12190	130	12320
	% within Subject	99.0	1.0	100.0
	% within A Levels	8.2	1.9	8.0
Law	Count	6945	75	7020
	% within Subject	98.9	1.1	100.0
	% within A Levels	4.7	1.1	4.5
Mass communications & documentation	Count	6305	185	6490
	% within Subject	97.2	2.8	100.0
	% within A Levels	4.3	2.7	4.2
Mathematical sciences	Count	5380	80	5460
	% within Subject	98.5	1.5	100.0
	% within A Levels	3.6	1.2	3.5
Medicine & dentistry	Count	2985	0	2985
	% within Subject	99.9		100.0
	% within A Levels	2.0		1.9
Physical sciences	Count	9820	230	10050
	% within Subject	97.7	2.3	100.0
	% within A Levels	6.6	3.4	6.5
Social studies	Count	15505	270	15775
	% within Subject	98.3	1.7	100.0
	% within A Levels	10.5	4.0	10.2
Subjects allied to medicine	Count	10500	250	10750
	% within Subject	97.7	2.3	100.0
	% within A Levels	7.1	3.7	6.9
Veterinary science	Count	330	0	330
	% within Subject	100.0		100.0
	% within A Levels	0.2		0.2
Total	Count	147855	6790	154645
	% within Subject	95.6%	4.4	100.0
	% within A Levels	100.0%	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5
Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data
and 2011/12 and 2012/13 HESA data.

Appendix F Type of degree studied by type of GCSE studied

		Studied D&T subject at KS4		
		No	Yes	Total
No HE Data	Count	310	320	630
	% within KS4	0.3	0.5	0.4
Agriculture & related subjects	Count	635	635	1270
	% within KS4	0.7	1.0	0.8
Architecture, building & planning	Count	1195	1320	2515
	% within KS4	1.3	2.1	1.6
Biological sciences	Count	12635	7970	20605
	% within KS4	13.8	12.7	13.3
Business & administrative studies	Count	9135	6435	15570
	% within KS4	9.9	10.2	10.1
Combined	Count	830	615	1445
	% within KS4	0.9	1.0	0.9
Computer science	Count	2790	2340	5130
	% within KS4	3.0	3.7	3.3
Creative arts & design	Count	8140	7445	15585
	% within KS4	8.9	11.9	10.1
Education	Count	3075	2175	5250
	% within KS4	3.3	3.5	3.4
Engineering & technology	Count	4195	4150	8345
	% within KS4	4.6	6.6	5.4
Historical & philosophical studies	Count	4615	2530	7145
	% within KS4	5.0	4.0	4.6
Languages	Count	8020	4295	12315
	% within KS4	8.7	6.8	8.0
Law	Count	4615	2405	7020
	% within KS4	5.0	3.8	4.5
Mass communications & documentation	Count	3915	2570	6485
	% within KS4	4.3	4.1	4.2
Mathematical sciences	Count	3330	2130	5460
	% within KS4	3.6	3.4	3.5
Medicine & dentistry	Count	1870	1115	2985
	% within KS4	2.0	1.8	1.9
Physical sciences	Count	5885	4170	10055
	% within KS4	6.4	6.6	6.5

		Studied D&T subject at KS4		Total
		No	Yes	
Social studies	Count	10020	5755	15775
	% within KS4	10.9	9.2	10.2
Subjects allied to medicine	Count	6445	4300	10745
	% within KS4	7.0	6.8	6.9
Veterinary science	Count	195	130	325
	% within KS4	0.2	0.2	0.2
Total	Count	91850	62805	154655
	% within KS4	100.0%	100.0	100.0

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5
 Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data
 and 2011/12 and 2012/13 HESA data.

Appendix G Subject categories studied at FE and appear on the ILR by student type (Non A level subjects)

		Type of student			Total
		Has A Levels	No A Levels, has AS or Applied Level	No A, AS or Applied level qualifications	
Medicine and Dentistry	Count	0	0	230	230
	% within type of student	x	x	0.0	0.0
Nursing and Subjects and Vocations Allied to Medicine	Count	25	10	515	550
	% within type of student	x	x	0.0	0.0
Health and Social Care	Count	6415	2400	70870	79685
	% within type of student	5.7	5.8	4.8	4.9
Public Services	Count	1520	480	24090	26090
	% within type of student	1.4	1.2	1.6	1.6
Child Development and Well Being	Count	365	370	37085	37820
	% within type of student	0.3	0.9	2.5	2.3
History	Count	10	30	280	320
	% within type of student	x	x	0.0	0.0
Philosophy	Count	115	80	95	290
	% within type of student	0.1	0.2	0.0	0.0
Theology and Religious Studies	Count	11780	1355	3270	16405
	% within type of student	10.6	3.3	0.2	1.0
Geography	Count	32	25	87	144
	% within type of student	0.0	0.1	0.0	0.0
Sociology and Social Policy	Count	150	315	1370	1835
	% within type of student	0.1	0.8	0.1	0.1
Languages, Literature and Culture of the British Isles	Count	1430	2075	18380	21885
	% within type of student	1.3	5.0	1.2	1.3

		Type of student			Total
		Has A Levels	No A Levels, has AS or Applied Level	No A, AS or Applied level qualifications	
Other Languages, Literature and Culture	Count	2810	525	3160	6495
	% within type of student	2.5	1.3	0.2	0.4
Teaching and Lecturing	Count	35	10	125	170
	% within type of student	x	x	0.0	0.0
Direct Learning Support	Count	225	50	655	930
	% within type of student	0.2	x	0.0	0.1
Foundations for Learning and Life	Count	52330	14225	685460	752015
	% within type of student	46.9	34.3	46.5	46.2
Preparation for Work	Count	2725	1420	68525	72670
	% within type of student	2.4	3.4	4.6	4.5
Accounting and Finance	Count	1670	610	5620	7900
	% within type of student	1.5	1.5	0.4	0.5
Administration	Count	1495	850	34985	37330
	% within type of student	1.3	2.1	2.4	2.3
Business Management	Count	2015	1545	21860	25420
	% within type of student	1.8	3.7	1.5	1.6
Marketing and Sales	Count	30	30	360	420
	% within type of student	x	x	0.0	0.0
Law and Legal Services	Count	220	200	1235	1655
	% within type of student	0.2	0.5	0.1	0.1
Science	Count	1345	2051	11391	14787
	% within type of student	1.2	4.9	0.8	0.9
Mathematics and Statistics	Count	5030	2895	20630	28555
	% within type of student	4.5	7.0	1.4	1.8

		Type of student			Total
		Has A Levels	No A Levels, has AS or Applied Level	No A, AS or Applied level qualifications	
Agriculture	Count	20	55	6755	6830
	% within type of student	x	0.1	0.5	0.4
Horticulture and Forestry	Count	20	20	4105	4145
	% within type of student	x	x	0.3	0.3
Animal Care and Veterinary Science	Count	105	170	12635	12910
	% within type of student	0.1	0.4	0.9	0.8
Environmental Conservation	Count	1620	230	6960	8810
	% within type of student	1.5	0.6	0.5	0.5
Engineering	Count	325	450	44355	45130
	% within type of student	0.3	1.1	3.0	2.8
Manufacturing Technologies	Count	60	25	2545	2630
	% within type of student	0.1	x	0.2	0.2
Transportation Operations and Maintenance	Count	130	155	32745	33033
	% within type of student	0.1	0.4	2.2	2.0
Architecture	Count	0	0	70	70
	% within type of student	0.0	0.0	0.0	0.0
Building and Construction	Count	175	205	61530	61910
	% within type of student	0.2	0.5	4.2	3.8
ICT Practitioners	Count	1145	1095	27550	29790
	% within type of student	1.0	2.6	1.9	1.8
ICT for Users	Count	1575	510	15725	17810
	% within type of student	1.4	1.2	1.1	1.1
Retailing and Wholesaling	Count	355	95	5065	5515
	% within type of student	0.3	0.2	0.3	0.3

		Type of student			Total
		Has A Levels	No A Levels, has AS or Applied Level	No A, AS or Applied level qualifications	
Warehousing and Distribution	Count	25	10	2350	2385
	% within type of student	x	x	0.2	0.1
Service Enterprises	Count	360	320	53045	53725
	% within type of student	0.3	0.8	3.6	3.3
Hospitality and Catering	Count	805	475	32675	33955
	% within type of student	0.7	1.1	2.2	2.1
Sport, Leisure and Recreation	Count	6805	2420	69290	78515
	% within type of student	6.1	5.8	4.7	4.8
Travel and Tourism	Count	490	505	17590	18585
	% within type of student	0.4	1.2	1.2	1.1
Performing Arts	Count	2510	940	21895	25345
	% within type of student	2.2	2.3	1.5	1.6
Crafts, Creative Arts and Design	Count	2400	1390	33745	37535
	% within type of student	2.2	3.3	2.3	2.3
Media and Communication	Count	815	895	13205	14915
	% within type of student	0.7	2.2	0.9	0.9
Publishing and Information Services	Count	90	5	20	115
	% within type of student	0.1	x	x	0.0
Total*	Count	111620	41510	1474125	1627255
	% within type of student	100.0%	100.0	100.0	100.0

x percentages have been suppressed due to counts being less than 52

*The following subjects had less than 10 students in both categories; Politics, Economics
Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix H Students that did not study A, AS or Applied level qualifications. Subject categories studied at FE and appear on ILR, by D&T subjects studied at KS4

		Did student take KS4		
		D&T subject		Total
		No	Yes	
Medicine and Dentistry	Count	140	95	235
	% within Studied D&T at KS4	0.0	0.0	0.0
Nursing and Vocations Allied to Medicine	Count	295	220	515
	% within Studied D&T at KS4	0.0	0.0	0.0
Health and Social Care	Count	41910	28960	70870
	% within Studied D&T at KS4	4.9	4.7	4.8
Public Services	Count	13610	10480	24090
	% within Studied D&T at KS4	1.6	1.7	1.6
Child Development and Well Being	Count	22020	15065	37085
	% within Studied D&T at KS4	2.6	2.4	2.5
History	Count	210	70	280
	% within Studied D&T at KS4	0.0	0.0	0.0
Philosophy	Count	60	30	90
	% within Studied D&T at KS4	0.0	x	0.0
Theology and Religious Studies	Count	1985	1285	3270
	% within Studied D&T at KS4	0.2	0.2	0.2
Geography	Count	60	30	90
	% within Studied D&T at KS4	0.0	x	0.0
Sociology and Social Policy	Count	850	525	1375
	% within Studied D&T at KS4	0.1	0.1	0.1
Languages, Literature and Culture of the British Isles	Count	10685	7690	18375
	% within Studied D&T at KS4	1.2	1.2	1.2
Other Languages, Literature and Culture	Count	1915	1245	3160
	% within Studied D&T at KS4	0.2	0.2	0.2
Teaching and Lecturing	Count	80	45	125
	% within Studied D&T at KS4	0.0	x	0.0
Direct Learning Support	Count	385	270	655
	% within Studied D&T at KS4	0.0	0.0	0.0
Foundations for Learning and Life	Count	404630	280830	685460
	% within Studied D&T at KS4	47.2	45.5	46.5
Preparation for Work	Count	43310	25215	68525
	% within Studied D&T at KS4	5.1	4.1	4.6

		Did student take KS4 D&T subject		
		No	Yes	Total
Accounting and Finance	Count	3220	2400	5620
	% within Studied D&T at KS4	0.4	0.4	0.4
Administration	Count	21500	13485	34985
	% within Studied D&T at KS4	2.5	2.2	2.4
Business Management	Count	13435	8425	21860
	% within Studied D&T at KS4	1.6	1.4	1.5
Marketing and Sales	Count	205	150	355
	% within Studied D&T at KS4	0.0	0.0	0.0
Law and Legal Services	Count	795	435	1230
	% within Studied D&T at KS4	0.1	0.1	0.1
Science	Count	7055	4335	11390
	% within Studied D&T at KS4	0.8	0.7	0.8
Mathematics and Statistics	Count	12055	8580	20635
	% within Studied D&T at KS4	1.4	1.4	1.4
Agriculture	Count	3265	3490	6755
	% within Studied D&T at KS4	0.4	0.6	0.5
Horticulture and Forestry	Count	1945	2160	4105
	% within Studied D&T at KS4	0.2	0.4	0.3
Animal Care and Veterinary Science	Count	7010	5625	12635
	% within Studied D&T at KS4	0.8	0.9	0.9
Environmental Conservation	Count	3825	3140	6965
	% within Studied D&T at KS4	0.4	0.5	0.5
Engineering	Count	21865	22490	44355
	% within Studied D&T at KS4	2.6	3.6	3.0
Manufacturing Technologies	Count	1315	1230	2545
	% within Studied D&T at KS4	0.2	0.2	0.2
Transportation Operations and Maintenance	Count	17515	15230	32745
	% within Studied D&T at KS4	2.0	2.5	2.2
Architecture	Count	35	35	70
	% within Studied D&T at KS4	x	x	0.0
Building and Construction	Count	32545	28985	61530
	% within Studied D&T at KS4	3.8	4.7	4.2
ICT Practitioners	Count	15525	12025	27550
	% within Studied D&T at KS4	1.8	1.9	1.9
ICT for Users	Count	9645	6080	15725
	% within Studied D&T at KS4	1.1	1.0	1.1
Retailing and Wholesaling	Count	2950	2115	5065
	% within Studied D&T at KS4	0.3	0.3	0.3

		Did student take KS4 D&T subject		
		No	Yes	Total
Warehousing and Distribution	Count	1335	1020	2355
	% within Studied D&T at KS4	0.2	0.2	0.2
Service Enterprises	Count	31480	21570	53050
	% within Studied D&T at KS4	3.7	3.5	3.6
Hospitality and Catering	Count	16935	15745	32680
	% within Studied D&T at KS4	2.0	2.6	2.2
Sport, Leisure and Recreation	Count	40405	28890	69295
	% within Studied D&T at KS4	4.7	4.7	4.7
Travel and Tourism	Count	10605	6985	17590
	% within Studied D&T at KS4	1.2	1.1	1.2
Performing Arts	Count	13825	8065	21890
	% within Studied D&T at KS4	1.6	1.3	1.5
Crafts, Creative Arts and Design	Count	17040	16705	33745
	% within Studied D&T at KS4	2.0	2.7	2.3
Media and Communication	Count	7740	5465	13205
	% within Studied D&T at KS4	0.9	0.9	0.9
Publishing and Information Services	Count	15	5	20
	% within Studied D&T at KS4	x	x	0.0
Total*	Count	857220	616905	1474125
	% within Studied D&T at KS4	100.0%	100.0	100.0

**The following subjects had 10 or less students in both categories; Economics
x indicates the suppression of percentage calculations due to count being less than 52
Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5
Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data
and 2011/12 and 2012/13 HESA data.

Appendix I Degree categorisation by KS4 studies for students with no A, AS or Applied level qualifications

		Studied D&T at KS4		Total
		No	Yes	
No classification	Count	55	50	105
	% within Studied D&T at KS4	0.3	x	0.3
Agriculture & related subjects	Count	410	345	755
	% within Studied D&T at KS4	2.0	2.2	2.1
Architecture, building & planning	Count	375	395	770
	% within Studied D&T at KS4	1.8	2.5	2.1
Biological sciences	Count	3000	2150	5150
	% within Studied D&T at KS4	14.6	13.5	14.1
Business & administrative studies	Count	2850	1990	4840
	% within Studied D&T at KS4	13.8	12.5	13.3
Combined	Count	350	205	555
	% within Studied D&T at KS4	1.7	1.3	1.5
Computer science	Count	1730	1410	3140
	% within Studied D&T at KS4	8.4	8.9	8.6
Creative arts & design	Count	3305	3235	6540
	% within Studied D&T at KS4	16.1	20.3	17.9
Education	Count	1265	1025	2290
	% within Studied D&T at KS4	6.1	6.4	6.3
Engineering & technology	Count	1460	1250	2710
	% within Studied D&T at KS4	7.1	7.8	7.4
Historical & philosophical studies	Count	150	110	260
	% within Studied D&T at KS4	0.7	0.7	0.7

		Studied D&T at KS4		Total
		No	Yes	
Languages	Count	255	150	405
	% within Studied D&T at KS4	1.2	0.9	1.1
Law	Count	515	310	825
	% within Studied D&T at KS4	2.5	1.9	2.3
Mass communications & documentation	Count	800	510	1310
	% within Studied D&T at KS4	3.9	3.2	3.6
Mathematical sciences	Count	85	70	155
	% within Studied D&T at KS4	0.4	0.4	0.4
Medicine & dentistry	Count	80	40	120
	% within Studied D&T at KS4	0.4	x	0.3
Physical sciences	Count	460	335	795
	% within Studied D&T at KS4	2.2	2.1	2.2
Social studies	Count	1500	985	2485
	% within Studied D&T at KS4	7.3	6.2	6.8
Subjects allied to medicine	Count	1925	1335	3260
	% within Studied D&T at KS4	9.4	8.4	8.9
Veterinary science	Count	10	10	20
	% within Studied D&T at KS4	x	x	x
Total	Count	20580	15910	36490
	% within Studied D&T at KS4	100.0%	100.0	100.0

x indicates the suppression of percentage calculations due to count being less than 52
Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5
Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

Appendix J Degree categorisation by KS4 studies for students with no A levels but did have AS or Applied level qualifications

		Studied D&T at KS4		
		No	Yes	
Agriculture & Related Subjects	Count	20	15	35
	% within Studied D&T at KS4	x	x	x
Architecture, Building & Planning	Count	45	40	85
	% within Studied D&T at KS4	x	x	1.4
Biological Sciences	Count	525	325	850
	% within Studied D&T at KS4	14.3	14.0	14.2
Business & Administrative Studies	Count	680	395	1075
	% within Studied D&T at KS4	18.5	16.9	17.9
Combined	Count	50	30	80
	% within Studied D&T at KS4	x	x	1.4
Computer Science	Count	210	150	360
	% within Studied D&T at KS4	5.7	6.3	6.0
Creative Arts & Design	Count	295	250	545
	% within Studied D&T at KS4	8.0	10.7	9.0
Education	Count	155	90	245
	% within Studied D&T at KS4	4.2	3.8	4.1
Engineering & Technology	Count	180	125	305
	% within Studied D&T at KS4	4.9	5.2	5.1
Historical & Philosophical Studies	Count	90	45	135
	% within Studied D&T at KS4	2.5	x	2.3
Languages	Count	155	105	260
	% within Studied D&T at KS4	4.2	4.4	4.3
Law	Count	225	120	345
	% within Studied D&T at KS4	6.1	5.2	5.7
Mass Communications & Documentation	Count	160	95	255
	% within Studied D&T at KS4	4.3	4.1	4.3
Mathematical Sciences	Count	65	55	120
	% within Studied D&T at KS4	1.7	2.3	1.9

		Studied D&T at KS4		
		No	Yes	
Physical Sciences	Count	135	85	220
	% within Studied D&T at KS4	3.7	3.6	3.6
Social Studies	Count	395	200	595
	% within Studied D&T at KS4	10.8	8.6	9.9
Subjects Allied To Medicine	Count	280	210	490
	% within Studied D&T at KS4	7.6	8.9	8.1
Total*	Count	3680	2345	6020
	% within Studied D&T at KS4	100.0%	100.0	100.0

*The following subjects had 10 or less students in both categories; Veterinary science, Medicine and dentistry, Not classified

x indicates the suppression of percentage calculations due to count being less than 52

Conforming to DFE rules on disclosure all numbers are rounded to nearest multiple of 5

Data source: matched dataset linking 2008/09 NPD, 2009/10 and 2010/11 ILR and KS5 data and 2011/12 and 2012/13 HESA data.

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- breadth
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- outcomes

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