

Uptake of GCE A level subjects 2013

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Introduction

This report looks at the uptake of A level subjects in England in 2013. The data for these analyses were taken from the National Pupil Database (NPD). This is a database held by the Department for Education, consisting of results for all students in all subjects in schools and colleges in England, as well as pupil and school background characteristics such as age, gender, ethnicity and level of deprivation.

For the analysis of uptake at A level the Key Stage 5 (KS5) extract of the NPD was used. This data was restricted to exams taken by students who were in year 13 in 2012/13. It includes exams taken by these students in previous years, to allow for A levels taken in year 12 or earlier. Uptake in this report is defined as the percentage of year 13 A level students taking an A level in the subject.

Tables 1 and 2 are a breakdown of the number of A levels taken by students.

Table 1: Number of A levels taken (% of A level students)

Number of A levels	Percentage
1	11.5
2	15.2
3	55.2
4	16.2
5+	1.9
No of students	260,087

Table 2: Number of A levels taken, excluding General Studies (% of A level students)

Number of A levels	Percentage
1	11.9
2	16.3
3	63.1
4	8.1
5+	0.7
No of students	259,688

Uptake of A levels in this report is presented by different student classifications: school type, prior attainment, school gender and deprivation level. In the following tables the numbers of students in each of the classifications are presented.

School type

There are several different types of school where students study for A levels. For this report these were classified into seven groups. Table 3 presents the number and percentage of A level students attending each school type (schools denoted as 'other' or 'unidentified' are not included).

Table 3: A level students by school type

School type	Number of students	Percentage
Academy	73,021	28.1
Comprehensive	61,534	23.7
FE/Tertiary College	21,257	8.2
Grammar	9,194	3.5
Independent	34,726	13.4
Secondary Modern	2,157	0.8
Sixth Form College	58,198	22.4

Prior attainment

Students were classified by their attainment at GCSE. GCSE grades were converted into scores $(A^* = 8, A= 7, B= 6 \text{ etc})$ and a mean GCSE was calculated for each student, which was then used to divide them up into three approximately equally sized attainment groups: low, medium and high. Table 4 presents the number in each group as well as the mean, minimum and maximum value of mean GCSE for each group. There was a small amount of missing data for this measure, with about 3% of students having no GCSEs recorded in the NPD.

Table 4: A level students by prior attainment

Prior attainment group	Number of students	Minimum	Maximum	Mean
Low	84,256	0.0	5.8	5.2
Medium	84,543	5.8	6.6	6.2
High	84,205	6.6	8.0	7.2

Deprivation level

The level of deprivation that a student experiences was measured by the Income Deprivation Affecting Children Index (IDACI). This is a measure of the percentage of children in a very small geographical area (Lower Layer Super Output Area or LSOA) who live in families that are income deprived. It varies between 0 and 1, with 0 representing minimum deprivation and 1 maximum deprivation.

It should be noted that there was a significant amount of missing data for this measure (42.7% of students had no record). Students who did have a measure of deprivation were divided up into three equally sized groups. Table 5 presents the number of students and the mean, minimum and maximum IDACI values in each group.

Table 5: A level students by deprivation level

Deprivation Group	Number of students	Minimum	Maximum	Mean
Low	49,698	0.00	0.07	0.04
Medium	49,697	0.07	0.18	0.11
High	49,699	0.18	0.99	0.34

School gender

The school gender variable was determined by the female ratio (number of females over the total number of students) in the school. If this ratio was greater than 0.95, the school was considered to be a "Girls" school. If the female ratio was less than 0.05, then the school was designated a "Boys" school. The rest of the schools were considered "Mixed" schools. Table 6 shows the numbers and percentages of students attending the different types of schools.

School gender	Number of students	Percentage
Boys school	9,197	3.5
Girls school	17,663	6.8
Mixed school	233,227	89.7

Table 6: A level students by school gender

Number of A levels taken

The number of A levels taken by students in each of the classifications are presented in Tables 7-10. For example, Table 7 shows that 11.3% of A level students in Academies took only one A level. Table 8 shows that 41.0% of A level students with low prior attainment took 3 A levels.

Table 7: Number of A levels taken, by school type (% of students)

Number of A levels	Acad	Comp	FE/Ter College	Grammar	Ind	Sec Mod	6th Form College
1	11.3	13.6	15.3	1.3	6.2	26.8	12.6
2	16.0	18.6	19.0	4.9	7.2	26.4	15.2
3	54.2	55.3	59.4	52.4	66.2	38.9	49.3
4	16.4	11.6	6.1	34.9	18.1	7.6	20.7
5+	2.1	0.8	0.2	6.5	2.4	0.4	2.3
No of students	73,021	61,534	21,257	9,194	34,726	2,157	58,198

Table 8: Number of A levels taken, by prior attainment (% of students)

Number of A levels	Low	Medium	High
1	25.9	6.5	1.6
2	27.7	14.7	3.6
3	41.0	63.1	62.6
4	5.3	14.9	27.7
5+	0.1	0.7	4.5
No of students	84,256	84,543	84,205

Number of A levels	Low	Medium	High
1	8.0	11.0	16.6
2	14.3	16.7	19.0
3	56.8	54.3	51.7
4	18.6	16.0	11.5
5+	2.3	1.9	1.3
No of students	49,698	49,697	49,699

Table 9: Number of A levels taken, by deprivation level (%of students)

Table 10: Number of A levels taken, by school gender (%)

Number of A levels	Boys school	Girls school	Mixed school
1	4.7	5.4	12.3
2	6.6	7.8	16.1
3	54.7	64.6	54.5
4	28.6	19.9	15.4
5+	5.4	2.3	1.7
No of students	9,197	17,663	233,227

Uptake of individual A level subjects

In the following tables the uptake of individual subjects is presented, broken down into the classifications outlined above. Subjects with an overall uptake level of less than 1% are not included. In each table the subjects are ordered by overall uptake (highest first). Thus, Mathematics had the highest level of uptake, being taken by 27.7% of all A level students, 36.8% of males and 20.2% of females.

Subject	All	Male	Female
Mathematics	27.7	36.8	20.2
Biology	20.4	18.8	21.6
Psychology	19.4	10.8	26.4
History	17.2	18.1	16.4
Chemistry	16.8	19.3	14.8
English Literature	16.3	9.4	22.1
General Studies	12.7	12.8	12.6
Physics	11.5	20.2	4.4
Geography	10.7	12.0	9.6
Sociology	10.1	5.3	14.0
Business Studies: Single	9.0	11.7	6.8
English Language	8.9	6.1	11.2
Economics	8.3	12.4	4.9
Media/Film/TV Studies	7.7	7.1	8.1
Religious Studies	7.0	5.0	8.6
English Language & Literature	5.5	3.4	7.2
Government & Politics	4.9	6.3	3.9
Art & Design (Fine Art)	4.9	2.6	6.8
Physical Education/Sports Studies	4.8	6.9	3.0
Drama & Theatre Studies	4.7	3.2	5.9
Mathematics (Further)	4.7	7.3	2.4
Art & Design (Photography)	4.6	2.7	6.3
Law	4.3	3.6	4.8
French	3.7	2.5	4.6
D&T Product Design	3.4	5.4	1.8
Information & Communications Technology	2.8	3.9	1.9
Art & Design	2.5	1.3	3.6
Spanish	2.4	1.7	2.9
Film Studies	2.2	2.5	1.9
Music	1.8	2.0	1.7
Art & Design (Graphics)	1.6	1.6	1.6
German	1.4	1.2	1.6
Classical Civilisation	1.3	1.1	1.5
Art & Design (Textiles)	1.3	0.1	2.3
Computer Studies/Computing	1.3	2.6	0.1
Accounting/Finance	1.1	1.6	0.7
Chinese	1.0	1.0	1.0

Table 11: Uptake of individual subjects by gender (% of A level students)

	· · ·		FE/Ter	=		6th Form		
Subject	Acad	Comp	College G	rammar	Ind	Sec Mod	College	
Mathematics	28.8	24.7	19.1	41.8	40.4	19.5	23.2	
Biology	21.8	19.5	15.0	32.5	23.8	17.2	17.6	
Psychology	20.1	20.8	23.7	19.6	9.6	18.3	21.1	
History	18.2	17.9	13.8	19.6	20.0	17.1	14.2	
Chemistry	17.5	15.1	10.9	28.7	23.0	12.4	14.6	
English Literature	17.9	18.1	12.1	21.6	18.2	19.8	12.1	
General Studies	13.7	10.0	0.5	30.2	4.4	4.9	21.1	
Physics	12.6	10.2	7.5	19.0	17.1	6.5	8.8	
Geography	11.9	11.1	6.3	14.7	15.5	7.3	6.9	
Sociology	9.7	11.2	16.8	6.6	0.9	12.1	12.7	
Business Studies: Single	8.1	8.0	12.6	7.8	9.2	7.1	10.1	
English Language	8.3	9.5	12.0	5.7	2.9	9.2	11.9	
Economics	7.3	6.1	4.4	12.4	18.0	2.4	7.1	
Media/Film/TV Studies	7.7	9.1	11.0	4.3	1.5	12.4	8.9	
Religious Studies	7.9	8.6	2.5	7.7	9.4	6.6	4.2	
English Language & Literature	5.3	5.1	10.9	2.7	1.0	2.6	7.3	
Government & Politics	4.4	3.9	4.0	8.1	7.5	3.3	5.1	
Art & Design (Fine Art)	4.5	4.9	5.0	4.5	6.2	4.5	4.8	
Physical Education/Sports Studies	5.4	4.8	3.0	5.2	4.7	3.8	4.7	
Drama & Theatre Studies	5.2	5.3	3.2	3.2	5.0	3.4	4.0	
Mathematics (Further)	4.6	3.5	2.4	8.3	9.5	1.8	3.4	
Art & Design (Photography)	4.1	4.6	7.6	1.0	2.4	6.4	6.2	
Law	2.3	3.0	10.1	1.6	0.3	2.5	8.8	
French	3.6	2.9	1.9	5.0	7.7	2.4	2.7	
D&T Product Design	4.4	4.4	0.5	4.3	4.1	3.7	1.7	
Information & Communications Technology	2.7	3.0	4.4	2.2	1.5	0.9	3.0	
Art & Design	2.8	3.2	0.9	2.5	3.1	5.8	1.7	
Spanish	2.1	1.8	1.3	2.9	5.2	1.0	2.0	
Film Studies	1.5	1.7	4.8	1.3	0.4	2.1	3.8	
Music	1.9	1.8	0.8	1.8	3.0	0.9	1.4	
Art & Design (Graphics)	0.9	0.9	3.5	0.3	0.5	0.9	3.2	
German	1.6	1.1	0.5	2.2	2.6	0.7	1.0	
Classical Civilisation	0.9	0.6	1.1	2.2	2.7	0.6	1.8	
Art & Design (Textiles)	0.9	1.0	1.9	0.3	0.9	0.6	2.2	
Computer Studies/Computing	1.0	0.6	1.8	1.2	0.6	0.1	2.4	
Accounting/Finance	0.5	0.4	2.9	0.2	0.6	0.6	2.4	
Chinese	0.2	0.2	0.4	0.3	5.8	0.2	0.4	

Table 12: Uptake of individual subjects by school type (% of A level students)

Subject	Low	Medium	High
Mathematics	7.9	23.6	49.5
Biology	5.4	19.9	36.3
Psychology	18.5	25.5	14.9
History	12.2	18.4	21.5
Chemistry	3.2	12.9	34.0
English Literature	12.7	17.7	19.3
General Studies	7.1	14.2	17.5
Physics	2.9	10.2	20.7
Geography	6.6	12.4	13.7
Sociology	16.7	11.0	2.9
Business Studies: Single	12.1	11.1	3.8
English Language	11.4	10.5	5.3
Economics	3.8	8.3	11.9
Media/Film/TV Studies	15.2	6.7	1.4
Religious Studies	7.0	7.6	6.8
English Language & Literature	7.2	6.3	3.2
Government & Politics	3.9	5.4	5.6
Art & Design (Fine Art)	5.2	5.4	4.3
Physical Education/Sports Studies	5.1	6.5	3.0
Drama & Theatre Studies	5.9	5.2	3.2
Mathematics (Further)	0.5	2.2	10.0
Art & Design (Photography)	8.7	4.3	1.1
Law	5.8	5.1	2.0
French	0.9	2.4	7.5
D&T Product Design	4.5	3.8	2.2
Information & Communications Technology	4.3	3.2	1.0
Art & Design	2.8	2.7	2.2
Spanish	0.8	1.8	4.3
Film Studies	4.5	1.7	0.4
Music	1.0	1.8	2.6
Art & Design (Graphics)	2.5	1.7	0.6
German	0.5	1.0	2.5
Classical Civilisation	0.9	1.5	1.6
Art & Design (Textiles)	1.8	1.4	0.6
Computer Studies/Computing	1.1	1.6	1.1
Accounting/Finance	1.5	1.3	0.4
Chinese	0.4	0.4	0.7

Table 13: Uptake of individual subjects by prior attainment (% of A level students)

Subject	Low	Medium	High
Mathematics	29.8	26.7	26.6
Biology	22.7	21.2	20.3
Psychology	19.8	20.3	21.1
History	19.6	19.0	15.8
Chemistry	17.8	16.2	17.3
English Literature	17.5	18.5	18.4
General Studies	16.2	14.2	8.5
Physics	13.5	12.1	10.0
Geography	14.5	12.5	7.8
Sociology	8.3	9.3	13.1
Business Studies: Single	8.9	8.0	7.3
English Language	10.2	9.2	6.5
Economics	8.0	6.1	6.9
Media/Film/TV Studies	7.0	8.3	9.2
Religious Studies	7.3	8.0	8.8
English Language & Literature	4.9	5.5	4.9
Government & Politics	4.4	4.4	4.4
Art & Design (Fine Art)	4.8	5.0	4.2
Physical Education/Sports Studies	6.1	5.7	3.5
Drama & Theatre Studies	5.1	5.5	4.6
Mathematics (Further)	5.1	4.2	3.5
Art & Design (Photography)	3.8	4.6	4.1
Law	2.2	2.5	3.0
French	4.1	3.4	2.5
D&T Product Design	4.8	4.6	3.7
Information & Communications Technology	2.5	2.6	3.3
Art & Design	2.8	3.0	3.2
Spanish	2.2	2.0	1.9
Film Studies	1.4	1.7	1.8
Music	2.2	2.0	1.3
Art & Design (Graphics)	0.9	0.9	0.8
German	1.7	1.4	1.1
Classical Civilisation	0.8	0.9	0.7
Art & Design (Textiles)	0.8	1.1	0.8
Computer Studies/Computing	1.0	1.0	0.7
Accounting/Finance	0.3	0.3	0.7
Chinese	0.2	0.1	0.3

Table 14: Uptake of individual subjects by deprivation group (% of A level students)

Subject	Boys School	Girls School	Mixed School
Mathematics	52.5	32.7	26.4
Biology	25.7	30.7	19.4
Psychology	6.2	21.1	19.7
History	20.9	19.0	16.9
Chemistry	29.3	25.2	15.7
English Literature	14.6	23.5	15.9
General Studies	13.3	10.1	12.9
Physics	25.7	9.0	11.2
Geography	15.6	14.0	10.2
Sociology	1.2	6.8	10.7
Business Studies: Single	6.5	5.9	9.4
English Language	3.2	5.2	9.4
Economics	23.1	9.9	7.6
Media/Film/TV Studies	1.9	3.4	8.2
Religious Studies	7.9	12.8	6.5
English Language & Literature	2.1	2.4	5.8
Government & Politics	9.8	6.4	4.6
Art & Design (Fine Art)	3.5	5.4	4.9
Physical Education/Sports Studies	4.5	2.5	5.0
Drama & Theatre Studies	2.3	5.3	4.7
Mathematics (Further)	13.6	5.2	4.3
Art & Design (Photography)	0.9	2.9	4.9
Law	0.6	0.6	4.7
French	6.4	7.3	3.3
D&T Product Design	3.7	1.7	3.6
Information & Communications Technology	1.3	2.1	2.9
Art & Design	1.8	3.8	2.5
Spanish	4.0	4.6	2.1
Film Studies	0.4	0.7	2.4
Music	2.4	2.3	1.8
Art & Design (Graphics)	0.3	0.4	1.7
German	2.5	2.1	1.3
Classical Civilisation	1.2	3.0	1.2
Art & Design (Textiles)	0.0	1.2	1.3
Computer Studies/Computing	2.3	0.1	1.3
Accounting/Finance	0.2	0.1	1.2
Chinese	1.0	2.8	0.9

Table 15: Uptake of individual subjects by school gender (% of A level students)

Combinations of subjects

The ten most common combinations of at least three A levels are presented in Table 16. Tables 17 and 18 present the most common combinations for males and females, respectively.

Table 16: Most common combinations of A level subjects, excluding general studies (% of students with at least 3 A levels)

Combination	Percent	Cumulative percent
Biology - Chemistry - Mathematics	5.5	5.5
Chemistry - Mathematics - Physics	2.4	7.9
Biology - Chemistry - Psychology	1.4	9.3
Mathematics - Mathematics (Further) - Physics	1.3	10.6
Chemistry - Mathematics - Mathematics (Further) – Physics	1.1	11.8
Biology - Chemistry - Physics	0.9	12.6
Biology - Chemistry - Geography	0.8	13.4
Biology - Chemistry - Mathematics - Physics	0.8	14.2
Biology - Mathematics - Physics	0.7	14.9
English Literature - History - Psychology	0.7	15.6

Table 17: Most common combinations of A level subjects, excluding general studies (% of males with at least 3 A levels)

Combination	Percent	Cumulative percent
Biology - Chemistry - Mathematics	5.4	5.4
Chemistry - Mathematics - Physics	4.4	9.8
Mathematics - Mathematics (Further) - Physics	2.5	12.3
Chemistry - Mathematics - Mathematics (Further) - Physics	2.0	14.3
Biology - Chemistry - Physics	1.3	15.6
Biology - Mathematics - Physics	1.2	16.8
Biology - Chemistry - Mathematics - Physics	1.1	17.9
Economics - Mathematics - Physics	1.0	18.9
D&T Product Design - Mathematics - Physics	0.8	19.8
Biology - Chemistry - Psychology	0.8	20.6

Table 18: Most common combinations of A level subjects, excluding general studies (% of females with at least 3 A levels)

Combination	Percent	Cumulative percent
Biology - Chemistry - Mathematics	5.6	5.6
Biology - Chemistry - Psychology	1.9	7.5
English Literature - History - Psychology	1.0	8.5
Biology - Chemistry - Geography	0.8	9.3
Chemistry - Mathematics - Physics	0.8	10.1
Biology - Mathematics - Psychology	0.7	10.8
English Literature - History - Religious Studies	0.7	11.5
English Literature - Psychology - Sociology	0.7	12.2
Biology - Chemistry - History	0.6	12.8
Biology - Chemistry - English Literature	0.6	13.4

Subject areas and domains

Social Science

Number of Students

Table 19 presents the uptake of five subject areas at A level. The subjects were grouped into five areas: Science/Mathematics, English, Languages, Social Science/Humanities and Arts. Grouping subjects is not a straightforward task and the allocation of subject areas is always debatable. Details of the subject areas can be found in the Appendix. This analysis is restricted to those students with at least three A level results.

Subject area	F	М	Low	Medium	High	All
Arts	30.2	22.0	43.4	30.2	16.1	26.5
English	45.6	22.1	45.7	38.5	28.5	35.1
Languages	12.6	8.4	4.3	6.8	15.3	10.7
Science	45.9	66.0	27.1	48.5	72.0	54.9

66.1

78.8

37,398

76.6

64.913

61.9

79.286

70.3

186.684

Table 19: Uptake of subject areas by gender and prior attainment (% of students with at least three A levels)

Thus, 30.2% of female students taking at least three A levels took at least one arts subject.

83.812

73.8

102,872

Subjects were also grouped in three different domains: Science and Mathematics, Arts and Languages, Social Science and Humanities (see Bell *et al.* 2005). Students who entered subjects at A level in only one domain have been classified as specialists, and students that entered for two of the domains have been classified as partly-mixed. The uptake of these domains is presented in Table 20.

Table 20: Uptake of combinations of subject domains by gender and prior attainment (% of students with at least three A levels)

	Science / Maths	Arts	Social Sci / Hum	F	М	Low	Medium	High	All
Specialist	Yes	-	-	9.7	22.1	4.6	10.7	23.6	15.2
	-	Yes	-	8.0	3.1	12.5	5.7	2.9	5.8
	-	-	Yes	6.8	8.8	13.0	9.5	4.0	7.7
Total			-	24.5	34.1	30.1	25.9	30.5	28.8
Partly mixed	Yes	Yes	-	8.6	8.7	4.1	6.9	11.8	8.7
	Yes	-	Yes	16.8	25.8	12.0	20.6	25.2	20.8
	-	Yes	Yes	39.3	22.0	47.4	36.3	21.1	31.5
Total	-		-	64.8	56.5	63.5	63.9	58.1	61.1
Completely mixed	Yes	Yes	Yes	10.8	9.4	6.4	10.2	11.5	10.2

Thus, 9.7% of female students took science subjects only at A level (Specialist - Science / Maths), and 24.5% took subjects in only one domain (Specialist - Total). Meanwhile 22.0% of male students took a mix of Arts and Social Science subjects (Partly Mixed - Arts - Social Science / Humanities), and 56.5% took some mix of two domains (Partly mixed - Total).

Facilitating subjects

In a recent guide to making decisions about post-16 education the Russell Group of leading universities defined a group of 'facilitating' subjects: Maths, Further Maths, English, Physics, Biology, Chemistry, Geography, History and Classical and Modern Languages (Russell Group, 2011). These are subjects that are required more often than others for university entry and therefore give students a wider range of possible degree courses. Table 21 shows the number of

the facilitating subjects taken by students at A level, broken down by gender and prior attainment.

Table 22 presents the uptake of these subjects by school type and Table 23 the uptake by deprivation level.

Table 21: Number of 'facilitating' subjects taken, by gender and attainment (% of students with at least three A levels)

No of subjects	F	М	Low	Medium	High	All
0	16.9	12.1	35.7	16.7	3.6	14.8
1	31.3	24.9	41.2	36.0	16.6	28.4
2	29.2	29.5	17.8	31.0	33.4	29.3
3 or more	22.6	33.5	5.3	16.3	46.3	27.5

Table 22: Number of 'facilitating' subjects taken, by school type (% of candidates with at least three A levels)

		-	FE/Ter		-		6th Form
No of subjects	Acad	Comp	College	Grammar	Ind	Sec Mod	College
0	11.9	14.2	25.5	7.1	7.4	16.6	22.3
1	27.3	29.4	35.9	23.3	23.1	25.9	31.4
2	30.9	29.6	22.7	31.3	32.7	30.0	26.4
3 or more	29.9	26.9	16.0	38.3	36.8	27.5	19.9

Table 23: Number of 'facilitating' subjects taken, by deprivation level (% of candidates with at least three A levels

No of subjects	Low	Medium	High
0	11.9	12.6	13.2
1	27.0	28.0	28.8
2	30.6	30.7	29.7
3 or more	30.5	28.8	28.4

References

Bell J.F., Malacova E. and Shannon M. (2005) The changing pattern of A-level/AS uptake in England. *The Curriculum Journal*, 16(3): 391-400.

The Russell Group (2011). *Informed Choices: A Russell Group guide to making decisions about post-16 education.* London: The Russell Group

Appendix: Subject Classifications

Science/Maths

Additional Mathematics Biology Chemistry Computer Studies/Computing Electronics Environmental Science Geology Information & Communications Technology Mathematics Mathematics (Further) Mathematics (Further) Mathematics (Pure) Mathematics (Statistics) Physics Science in Society Use of Mathematics

Social Science and Humanities

Accounting/Finance Ancient History Archaeology **Business Studies: Single Business Studies & Economics Classical Civilisation** Classics (General) Critical Thinking **D&T Food Technology D&T Product Design** D&T Systems & Control Economics Geography **Government & Politics** History Home Economics: Food Law Logic/ Philosophy Psychology **Religious Studies** Social Science: Citizenship Sociology World Development

<u>English</u>

Communication Studies Drama & Theatre Studies English Language English Language & Literature English Literature Expressive Arts & Performance Studies

Languages

Arabic Bengali Chinese **Classical Greek** Dutch French German Gujarati Italian Japanese Latin Modern Greek Modern Hebrew Other Classical Languages Persian Polish Portuguese Punjabi Russian Spanish Turkish Urdu Welsh Language

<u>Arts</u>

Art & Design Art & Design (3d Studies) Art & Design (Critical Studies) Art & Design (Fine Art) Art & Design (Graphics) Art & Design (Photography) Art & Design (Textiles) D&T Textiles Technology Dance Film Studies History of Art Media/Film/TV Studies Music Music Technology Physical Education/Sports Studies