



Department
for Education

Level 3 value added

Report and ready reckoner guidance

January 2015

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Introduction

The level 3 value added report and ready reckoner allow providers to analyse and calculate level 3 value added scores within their school or college.

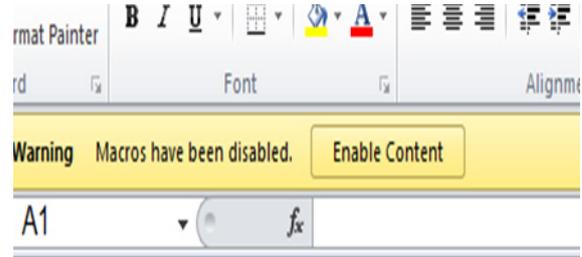
This guide shows the user how the data is displayed in the report, and how to input data into the ready reckoner.

The guide then shows how to interpret the data displayed in either the report or the ready reckoner.

Value added is displayed in the same way in both the report and ready reckoner, allowing for easy interpretation and further analysis.

Getting started – enabling macros

When you open either the report or ready reckoner, you will see one of these messages:



When you see one of these messages, please click on the Enable Macros button.

About enabling macros

A macro is a series of commands and functions that enable a change in the spread sheet. In the level 3 value added reports and ready reckoner, the only function our macros serve is to change the scale of the charts on the 'Subject Detail' and 'Subject Summary' sheets, when you change the qualification you are looking at. This makes the charts easier to interpret.

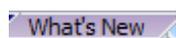
It is safe to enable macros on any document related to level 3 value added that has been produced by the Department for Education.

Finding your way around the report and the ready reckoner

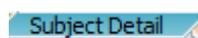
You can use the tabs at the bottom of the Excel spreadsheet to access the different elements of the report or ready reckoner.



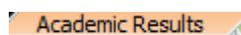
The **Home** tab provides quick links to other parts of the report or ready reckoner



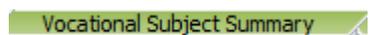
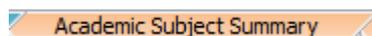
The **What's New** page explains the new features of value added in 2015 and how they impact on your school or college



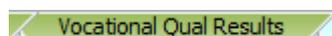
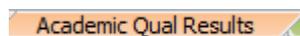
The **Subject Detail** tab shows how individual pupil value added scores compare to the national average



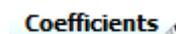
The **Academic** and **Vocational Results** tabs show value added scores across all academic and vocational subjects respectively



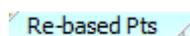
The **Academic** and **Vocational Subject Summary** tabs show value added by subject.



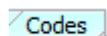
The **Academic** and **Vocational Qual Results** tabs show value added by qualification type



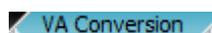
The **Coefficients** tab shows the coefficients used to calculate value added scores



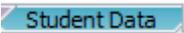
The **Re-based Pts** tabs helps you to convert performance points into re-based points and visa-versa



The **Codes** tab shows the different qualification and subject codes that should be used to identify qualifications



The **VA Conversion** tab allows you to convert this year's value added scores into points for comparison with previous years

The **report** additionally has a  **Student Data** tab, which shows student level data for your institution

The **ready reckoner** has the following additional tabs:

 The **Input Data** tab allows you to enter your students' grades in order to calculate and analyse their value added scores.

 The **PA Calc** tab helps you to calculate students' average point score for prior attainment at level 2

'Home' sheet

The home sheets are similar in both the ready reckoner and level 3 value added report. The difference between them is the option to view Student Data on the report, compared with the option to Input Data on the ready reckoner.

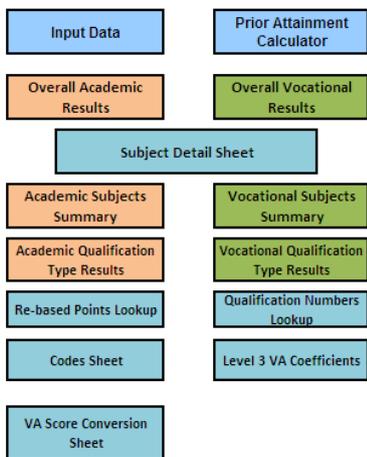
Clicking here takes you to Input Data on the ready reckoner

LEVEL 3 VALUE ADDED READY RECKONER

The purpose of this Ready Reckoner is to allow the user to calculate Value Added information for a groups of students within their school.

The Ready Reckoner will then summarise the information that you enter into a format that allows further analysis. The information is displayed at Student level, at Qualification level, at Qualification Type level and at Sector Subject Area (SSA) level.

To start using the Ready Reckoner, click on the 'Input Data' link below



Useful Information

You can find a number of useful resources on the Level 3 VA webpage (please copy and paste the web address below into your browser):

http://www.education.gov.uk/schools/performance/16to18_12/c5.html

Alternatively, you can find these resources on the performance tables checking website.

If you have a query about the Ready Reckoner please consult the FAQs document on the website, or contact the Level 3 VA helpdesk:

level3va.helpdesk@education.gsi.gov.uk

What's New in Level 3 VA?

Clicking here takes you to Student Data on the report

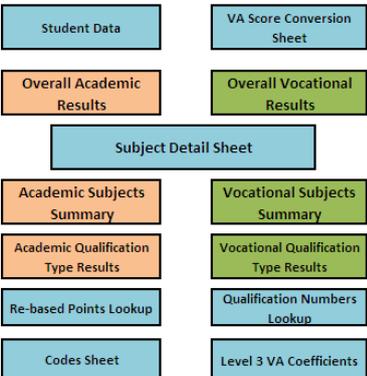
LEVEL 3 VALUE ADDED SCHOOL AND COLLEGE REPORT

School/College Name:

LAESTAB:

URN:

Year:



Useful Information

You can find a number of useful resources on the Level 3 VA webpage (please copy and paste the web address below into your browser):

http://www.education.gov.uk/schools/performance/16to18_12/c5.html

Alternatively, you can find these resources on the performance tables checking website.

If you have a query about your report or data please consult the FAQs document on the website, or contact the Level 3 VA helpdesk:

level3va.helpdesk@education.gsi.gov.uk

What's New in Level 3 VA?

Student level data

The main difference between the level 3 value added report and ready reckoner is that the report simply displays pre-calculated student level data, whilst the ready reckoner allows the user to input the data they wish to analyse.

In the report, the 'Student Data' sheet shows all the student data used to produce the analysis in the report.

In the ready reckoner, you can enter data for the group of students you are interested in analysing in the 'Input Data'. The ready reckoner will then produce analysis based only on these students.

'Student Data' sheet

In the level 3 value added report, the 'Student Data' sheet shows the prior attainment, estimated point score at level 3, actual point score at level 3, and value added score, for each qualification taken by each student

This is the student level data sheet on the report.

The data has been anonymised for this illustration.

FORENAME	SURNAME	GENDER	UPIN	LAESTAB	SUBLEVENO	SUBJ	SSA	PRIOR	ESTIMATED_POINTS	ACTUAL_POINTS	VA SCORE
111	11010	30002	47.8091	55	146.0907052	90	4.180255053				
111	11010	30002	52.8723	125.7214291	150	24.27897092					
111	11010	30002	47.8462	85.38046884	120	34.81953016					
111	11010	30002	48.4	89.27454058	120	30.7254942					
111	11010	30002	53.8829	133.2619754	120	-13.26197542					
111	11010	30002	54.8421	144.5177333	120	-24.51773328					
111	11010	30002	51.8154	117.9203762	90	-24.59037618					
111	11010	30002	53.7143	133.562953	150	16.3704702					
111	11010	30002	52	117.9208686	90	-27.92086856					
111	11010	30002	56.2	158.3988638	150	-8.398863825					
111	11010	30002	47.3158	91.7704533	150	60.2095467					
111	11010	30002	50.7581	107.3764076	150	42.62359237					
111	11010	30002	49.2	95.13891035	150	54.86108965					
111	11010	30002	49	83.6462066	120	26.357934					
111	11010	30002	46.9474	79.35834683	90	10.64165317					
111	11010	30002	47.8091	85.81171411	120	34.18828589					
111	11010	30002	55.6522	152.7848995	180	27.29514052					
111	11010	30002	49.6981	96.93199031	120	21.08800969					
111	11010	30002	54	136.2054827	120	-16.28548274					
111	11010	30002	54.0769	127.0256844	150	12.87420562					
111	11010	30002	47.5	83.01846854	30	-53.01846854					
111	11010	30002	51.8091	117.1346177	120	2.865382295					
111	11010	30002	50.8369	108.0410822	150	41.66952675					
111	11010	30002	52.8462	125.4870759	90	-35.48707588					
111	11010	30002	54.4	140.1553995	120	-20.15539951					
111	11010	30002	57.1539	168.5782955	150	-18.57829549					
111	11010	30002	49.1539	94.78389357	60	-34.78389357					
111	11010	30002	48.2222	88.0027058	150	81.9972942					
111	11010	30002	51.3864	112.4828022	120	-51.197798					
111	11010	30002	55	146.0907052	120	-26.09070517					
111	11110	30002	55.9231	149.330795	150	0.669205018					
111	11110	30002	50.5	102.7373719	180	78.2926224					
111	11110	30002	55	140.6459054	120	-20.64590542					
111	11110	30002	53.75	129.49603	90	-39.49603001					
111	11110	30002	56.8571	158.5049152	120	-38.50491521					
111	11110	30002	53.7143	129.1900319	90	-39.19003194					
111	11110	30002	48.4	89.88831348	120	30.33168852					
111	11110	30002	53.8829	128.9150768	120	-8.91507674					
111	11110	30002	57.6471	166.5711288	90	-76.57112881					
111	11110	30002	50	100.2416351	150	49.7583849					
111	11110	30002	53.7143	129.1900319	150	20.89986868					

'Input Data' sheet

In the ready reckoner, to calculate expected levels of attainment and value added scores, data must be entered in the following fields: Qualification Code, Subject Code, Gender, Prior Attainment and Outcome Attainment. These are shown below:

INPUT DATA SHEET

The purpose of this sheet is to allow the user to input the information required to calculate Value Added scores for their students. This sheet will calculate each student's expected level of attainment and their Value Added score in the subject/qualification they have been entered for.

The 'Academic Results', 'Vocational Results', 'Subject Detail', 'Academic Subject Summary', 'Academic Qual Results', 'Vocational Subject Summary' and 'Vocational Qual Results' sheets then translate this information into a format that allows further analysis of the data.

In order to calculate Value Added scores, you must enter data into the 'Qualification Code', 'Subject Code', 'Gender', 'Prior Attainment' and 'Outcome Attainment' for each student.

Go to Score Conversion Page

Return to Homepage

Click here to transfer to the Prior Attainment Calculation page or Re-based Points lookup

QUICK CODE LOOKUP	
Select Qualification from dropdown list below	
CACHE Level 3 Diploma in Child Care and Education	
Qualification Code	612
Subject Code (SUBJ)	25308

0 = Male (default)
1 = Female

Click to calculate Prior Attainment
Click to calculate Rebased Points

Optional Information
Required Information
Calculated Information

Qualification Code (SUBLEVN O)	Subject Code (SUBJ)	Forename	Surname	Gender	Prior Attainment (PRIOR)	Outcome Attainment (POINTS Re-based)	Qualification Check	Estimated Attainment	VA in Grade
111	15650	Student	1	1	56.4	180	A Level French	146.5	1.1
111	17810	Student	1	0	56.4	180	A Level General Studies	136.6	1.4
111	12210	Student	1	0	56.4	180	A Level Mathematics	159.8	0.7
111	15110	Student	1	0	56.4	180	A Level English Literature	157.2	0.8

Data REQUIRED in these fields

The name of the qualification corresponding to the codes you have entered appears here

Student level value added score shown here

You can use the quick code lookup box to find the correct qualification and subject code to input into the table. Select the qualification from the dropdown list, as shown below:

QUICK CODE LOOKUP	
Select Qualification from dropdown list below	
CACHE Level 3 Diploma in Child Care and Education	
CACHE Level 3 Diploma in Child Care and Education	
Cambridge International Level 3 Pre-U Certificate in History (Principal)	
Cambridge International Level 3 Pre-U Certificate in Global Perspectives (Short Course)	
Cambridge International Level 3 Pre-U Certificate in Global Perspectives and Independent Research	
Cambridge International Level 3 Pre-U Certificate in Literature in English (Principal)	
CCEA Advanced GCE in Mathematics	
CCEA Advanced GCE in Spanish	
CCEA Advanced Subsidiary GCE in Applied Information and Communications Technology	

Click on a qualification from the dropdown list

QUICK CODE LOOKUP	
Select Qualification from dropdown list below	
Cambridge International Level 3 Pre-U Certificate in Global Perspectives and Independent Research	
Qualification Code	113
Subject Code (SUBJ)	20296

The codes will appear in the boxes below

Analysing data for individual qualifications

The 'Subject Detail' sheet provides analysis for each qualification for which data has been entered in the workbook.

To view analysis for a particular qualification, click on the drop down menu as shown in the diagram

The screenshot displays the 'LEVEL 3 VALUE ADDED: ACADEMIC SUBJECT DETAIL CHART TOOL' interface. At the top, there is a ribbon with tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, and View. Below the ribbon, the current sheet is identified as '623/20533 - Edexcel BTEC Level 3 90-credit Diploma Sports / Movement Science'. The main area contains a dropdown menu for selecting a qualification, a chart area, and a table of student results. A red box highlights the dropdown menu with the text 'Select a qualification from the dropdown list'. The chart area shows a line graph with the y-axis labeled 'Actual Point Score in Qualification' and the x-axis labeled 'Estimated Point Score in Qualification'. The chart includes a legend for 'Male', 'Female', and 'Highlighted Students'. Below the chart, there are 'CHART OPTIONS' and 'STUDENT RESULTS' sections.

CHART OPTIONS

- Use the drop down box to the right to choose the type of chart you wish to view:
 - Actual Outcome vs Estimated Outcome
 - All Students
- Use the drop down box to the right to filter students on the chart:
 - All Students
 - Male Only
 - Female Only
 - Highlighted Students Only

Please ensure macros are enabled for the chart to display correctly

STUDENT RESULTS

ID	Highlight on Chart	Surname	Forename	Gender	Prior Att.	Est. Point Score	Actual Point Score	Value Added Score	Value Added (Graded)	ID	Highlight on Chart	Surname	Forename	Gender	Prior Att.	Est. Point Score	Actual Point Score	Value Added Score	Value Added (Graded)
1	Yes	Student	Student	Male	45.0	115.1	120.0	4.9	0.11	5	Yes	Student	Student	Male	45.0	115.1	120.0	4.9	0.11
2	No	Student	Student	Male	45.0	115.1	120.0	4.9	0.11	6	No	Student	Student	Male	44.0	109.5	120.0	10.5	0.23

Once you have selected the qualification you are interested in, you can then view one of two chart options.

The first option plots the estimated achievement against the actual achievement for the selected level 3 qualification. For this chart, there are options which plot the results either for all students or a selected subset of students. These options are 'All Students', 'Male Only', 'Female Only' or 'Highlighted Students Only'.

The second chart type plots prior attainment against the actual achievement for the selected level 3 qualification. For this chart, the only options are 'All Students' or 'Highlighted Students Only'.

To select the various chart options, click on the drop down menus as shown in the screen shot below:

LEVEL 3 VALUE ADDED: ACADEMIC SUBJECT DETAIL CHART TOOL

The orange drop-down box below can be used to look at results for different qualifications

623/20533 - Edexcel BTEC Level 3 90-credit Diploma Sports / Movement Science

This report allows the user to compare individual students results to the national average of students with the same prior attainment. There are two ways of visualising this information;

1) a chart showing students' actual outcomes against their estimated outcomes in the Level 3 subject

2) a chart showing students' actual outcomes in the Level 3 subject against their prior attainment.

Click here to select a chart option

CHART OPTIONS

1) Use the drop down box to the right to choose the type of chart you wish to view

2) Use the drop down box to the right to filter students on the chart

Please ensure macros are enabled for the chart to display correctly

Value Added is expressed as a proportion of one BTEC Subsidiary Diploma grade

Actual Point Score in Qualification

Estimated Point Score in Qualification

STUDENT RESULTS

ID	Highlight on Chart	Surname	Forename	Gender	Prior Att.	Est. Point Score	Actual Point Score	Value Added (Base)	Value Added (Graded)	ID	Highlight on Chart	Surname	Forename	Gender	Prior Att.	Est. Point Score	Actual Point Score	Value Added (Base)	Value Added (Graded)
1	Yes	Student		Male	45.0	115.5	120.0	0.11	5	Yes	Student		Male	45.0	115.5	120.0	4.9	0.11	
2	No	Student		Male	45.0	115.5	120.0	0.11	6	No	Student		Male	44.0	109.5	120.0	10.5	0.23	

To filter the students shown on the chart, select one of the options here

Click here and select 'Yes' to highlight a student on the chart

Academic/vocational results

The report and ready reckoner show overall value added scores for academic and vocational qualifications separately.

Academic value added scores are displayed as a proportion of one A level grade, with confidence intervals.

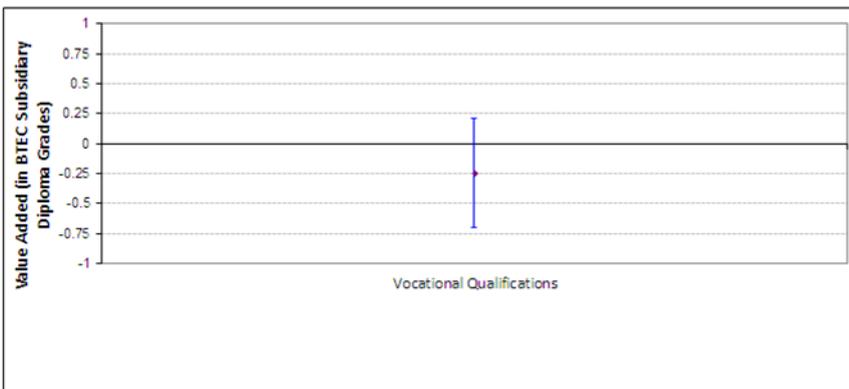
Vocational value added scores are displayed as a proportion of one BTEC grade, with confidence intervals.

LEVEL 3 VALUE ADDED: VOCATIONAL QUALIFICATIONS CHART TOOL

This sheet shows the overall Value Added for Vocational Qualifications, expressed in terms of a proportion of one BTEC Subsidiary Diploma grade.

[Go to Score Conversion Page](#) [Return to Homepage](#)

Vocational Qualifications - Value Added is Displayed as a proportion of one BTEC Level 3 Subsidiary Diploma grade



Interpreting the Chart

Vocational Score is **above** the national average and this is statistically significant
 This is because the whole range of the confidence interval is above zero
 This tells us that students taking vocational qualifications **made more progress than the national average** of students with similar prior ability

Vocational score is **not significantly different** from the national average
 This is because the range of the confidence interval straddles the national average line of zero
 This tells us that students taking vocational qualifications **made progress comparable with national average** of students with similar prior ability

Vocational score is **below** the national average and this is statistically significant
 This is because the whole range of the confidence interval is below zero
 This tells us that students taking Vocational qualifications **made less progress than the national average** of students with similar prior ability

Overall Academic Qualification Results

Code	Qualification Category	Number of Entries	Value Added Score (in BTEC Grades ¹)	Lower Bound	Upper Bound	Statistical Significance
2	Vocational Qualifications	13	-0.24	-0.69	0.21	



In this example, the difference between the vocational qualifications value added score and the national average is not statistically significant

Caution: A lack of statistical significance does not in itself suggest that performance is at the national average. Where a school/college has few qualification entries, the value added score estimate is given a wider margin and sometimes there is not enough information to distinguish whether the difference in performance is statistically significant from the national average.

Academic/vocational subject summary sheets

The “Academic Subject Summary” and “Vocational Subject Summary” sheets show how your institution’s value added scores compare to the national average for each subject across different qualification types. For example, in the screen shot below, the provider has selected to view value added scores for A level qualifications. The chart shows the value added scores and confidence intervals for all the different A level subjects entered by the provider.

Academic and vocational qualifications are displayed on separate tabs.

To view subjects for a different qualification type, click on the orange box, and select a new subject from the dropdown menu.

The data table below the chart shows whether the provider’s value added score within each subject is above or below the national average with statistical significance

Click to select a qualification from the dropdown list

LEVEL 3 VALUE ADDED: ACADEMIC SUBJECT SUMMARY CHART TOOL

This report shows Value Added scores for each subject within each qualification type. *All VA scores are shown in terms of a proportion of one A Level grade.* The orange drop-down box can be used to look at subjects for different Academic qualification types.

A Level

Interpreting the Chart

- Subject VA Score is above the national average and this is statistically significant. This is because the whole range of the confidence interval is above zero. This tells us that the students in this subject make more progress than average.
- Subject VA Score is not significantly different from the national average. This is because the range of the confidence interval straddles the national average of zero. This tells us that the students in this subject make progress commensurate with the average.
- Subject VA Score is below the national average and this is statistically significant. This is because the whole range of the confidence interval is below zero. This tells us that the students in this subject make less progress than average.

SUBJECT RESULTS

(1) The value added score for this subject has been calculated by comparing to all students nationally taking exams in the same qualification type

ID	Qual Code	Subject Code	Qualification Type Name	Subject Name	Number of Entries	Value Added (in A Level Grades)	Lower Bound	Upper Bound	Statistical Significance
1	111	12210	A Level	Mathematics	1	0.03	-0.44	0.49	
2	111	15110	A Level	English Literature	1	0.13	-0.58	0.85	
3	111	15210	A Level	Drama	1	-0.03	-0.76	0.70	
4	111	15650	A Level	French	1	0.04	-0.31	0.40	
5	111	16610	A Level	Latin	1	0.38	-0.14	0.91	
6	111	17010	A Level	Music	3	0.93	0.33	1.54	Above average
7	111	17810	A Level	General Studies	1	0.22	-0.65	1.09	

To view value added scores in points, or in terms of a qualification type's own grade structure, please click here to go to the Score Conversion Page

In this example, the A level value added score is above the national average and statistically significant.

Academic/vocational qualification type results sheets

The “Academic Qual Results” and “Vocational Qual Results” tabs show how your institution’s value added scores compare to the national average for each qualification type. You can use these sheets to view your value added for all academic or all vocational qualification types.

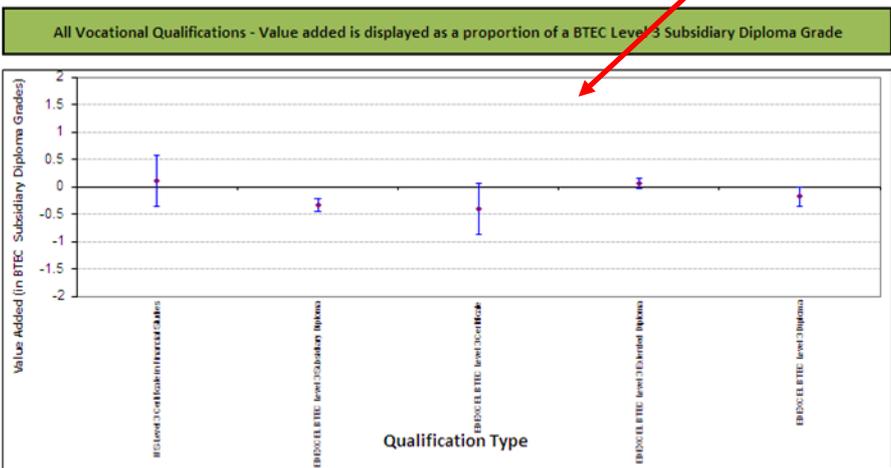
As with the subject summary sheets, the data table below the chart shows whether the provider’s value added score within each qualification type is above or below the national average, with statistical significance.

LEVEL 3 VALUE ADDED: QUALIFICATION TYPE CHART TOOL

This report shows Value Added scores for each Vocational Qualification type

[Return to Homepage](#)

All vocational qualification types entered by the institution are displayed here

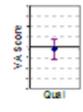


Interpreting the Chart

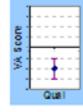
Qualification VA Score is **above** the national average and this is statistically significant
 This is because the whole range of the confidence interval is above zero
 This tells us that the students in this Qualification make more progress than average



Qualification VA Score is **not significantly different** from the national average
 This is because the range of the confidence interval straddles the national average of zero
 This tells us that the students in this Qualification make progress comparable with the average



Qualification VA Score is **significantly below** the national average
 This is because the whole range of the confidence interval is below zero
 This tells us that the students in this Qualification make less progress than average



To view value added scores in points, or in terms of a qualification type's own grade structure, please [click here](#) to go to the Score Conversion Page

QUALIFICATION TYPE RESULTS

Qual Code	Qualification Type Name	Number of Entries	Value Added Score (in BTEC Grades ¹)	Lower Bound	Upper Bound	Statistical Significance
610	IFS Level 3 Certificate in Financial Studies	16	0.11	-0.36	0.59	
617	EDEXCEL BTEC Level 3 Subsidiary Diploma	296	-0.34	-0.46	-0.22	Below average
618	EDEXCEL BTEC Level 3 Certificate	13	-0.40	-0.86	0.06	

In this example, the BTEC Subsidiary Diploma value added score is below the national average and statistically significant.

Re-based points sheet

Performance points can be converted into re-based points using the “Re-based Pts” Sheet. Find the qualification you want to convert in the “qualification type description” column, and read across to translate the grade obtained into a re-based points score.

RE-BASED POINTS LOOKUP

Ret
Hom

This sheet provides a lookup between performance points and re-based points for each grade within each qualification type included in Level 3 Value Added

Qual Code	Qualification Type Description	Grade	Points	Re-based Points	Qual Size
101	Extended Project (Diploma)	*	90	54	0.30
101	Extended Project (Diploma)	A	81	45	0.30
101	Extended Project (Diploma)	B	72	36	0.30
101	Extended Project (Diploma)	C	63	27	0.30
101	Extended Project (Diploma)	D	54	18	0.30
101	Extended Project (Diploma)	E	45	9	0.30
101	Extended Project (Diploma)	U	0	0	0.30
104	Principal Learning (Diploma) - Level 3	*	450	270	1.50
104	Principal Learning (Diploma) - Level 3	A	405	225	1.50
104	Principal Learning (Diploma) - Level 3	B	360	180	1.50
104	Principal Learning (Diploma) - Level 3	C	315	135	1.50
104	Principal Learning (Diploma) - Level 3	D	270	90	1.50
104	Principal Learning (Diploma) - Level 3	E	225	45	1.50
104	Principal Learning (Diploma) - Level 3	U	0	0	1.50
111	GCE A level	*	300	180	1.00
111	GCE A level	A	270	150	1.00
111	GCE A level	B	240	120	1.00
111	GCE A level	C	210	90	1.00
111	GCE A level	D	180	60	1.00
111	GCE A level	E	150	30	1.00
111	GCE A level	U	0	0	1.00
113	Pre-U Principal Subject	D1	300	170	1.00
113	Pre-U Principal Subject	D2	282.5	152.5	1.00
113	Pre-U Principal Subject	D3	265	135	1.00
113	Pre-U Principal Subject	M1	247.5	117.5	1.00
113	Pre-U Principal Subject	M2	230	100	1.00



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