# Level 3 value added

## Report and ready reckoner guidance

**January 2015**

# Contents

# 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:
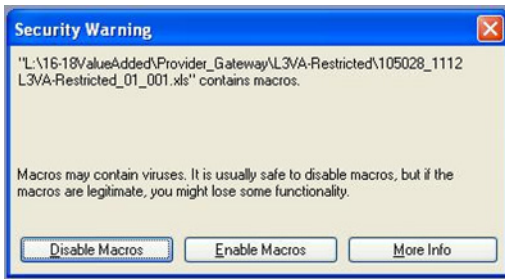


When you see one of these messages, please click on the Enable Macros button.

## 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.
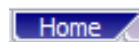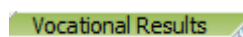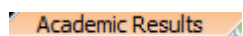
**Home**         The **Home** tab provides quick links to other parts of the report or ready reckoner
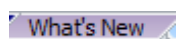
**What's New**     The **What's New** page explains the new features of value added in 2015 and how they impact on your school or college
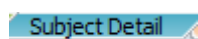
**Subject Detail**    The **Subject Detail** tab shows how individual pupil value added scores compare to the national average

**Academic Results**
**Vocational Results**    The **Academic** and **Vocational Results** tabs show value added scores across all academic and vocational subjects respectively
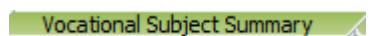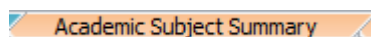
**Academic Subject Summary**
**Vocational Subject Summary**   The **Academic** and **Vocational Subject Summary** tabs show value added by subject.
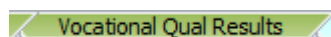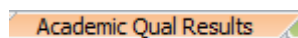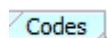
**Academic Qual Results**
**Vocational Qual Results**   The **Academic** and **Vocational Qual Results** tabs show value added by qualification type
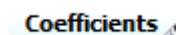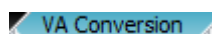
**Coefficients**    The **Coefficients** tab shows the coefficients used to calculate value added scores
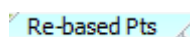
**Re-based Pts**    The **Re-based Pts** tabs helps you to convert performance points into re-based points and visa-versa

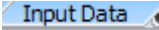**Codes**    The **Codes** tab shows the different qualification and subject codes that should be used to identify qualifications
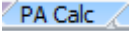
**VA Conversion**    The **VA Conversion** tab allows you to convert this year's value added scores into points for comparison with previous years

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

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

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

PA Calc     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.
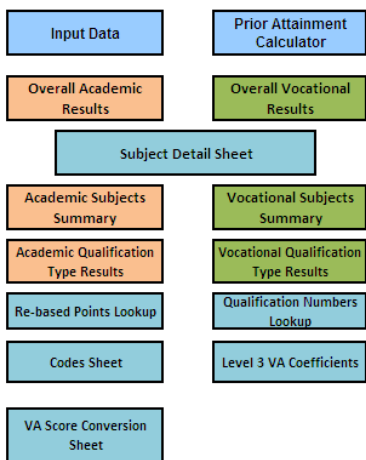
Clicking here takes you to Input Data on the ready reckoner

**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

| Input Data | Prior Attainment Calculator |
| Overall Academic Results | Overall Vocational Results |
| Subject Detail Sheet | |
| Academic Subjects Summary | Vocational Subjects Summary |
| Academic Qualification Type Results | Vocational Qualification Type Results |
| Re-based Points Lookup | Qualification Numbers Lookup |
| Codes Sheet | Level 3 VA Coefficients |
| VA Score Conversion Sheet | |

**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?**

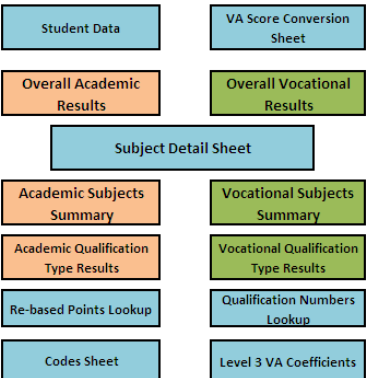Clicking here takes you to Student Data on the report

**LEVEL 3 VALUE ADDED SCHOOL AND COLLEGE REPORT**

School/College Name:

LAESTAB:

URN:

Year:

| Student Data | VA Score Conversion Sheet |
| Overall Academic Results | Overall Vocational Results |
| Subject Detail Sheet | |
| Academic Subjects Summary | Vocational Subjects Summary |
| Academic Qualification Type Results | Vocational Qualification Type Results |
| Re-based Points Lookup | Qualification Numbers Lookup |
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**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.

# '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 Atta...... .......... for each student.

**Go to Score Conversion Page**

**Return to Homepage**

*Optional Information*
*Required Information*
*Calculated Information*

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

**Click to calculate Prior Attainment**

**Click to calculate Rebased Points**

| Qualification Code (SUBLEVNO) | 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 (
Cambridge International Level 3 Pre-U Certificate in Global Perspectives and Ind
Cambridge International Level 3 Pre-U Certificate in Literature in English (Princip
CCEA Advanced GCE in Mathematics
CCEA Advanced GCE in Spanish
CCEA Advanced Subsidiary GCE in Applied Information and Communications T

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

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# 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



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:

Click here to select a
chart option

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.



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



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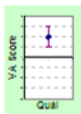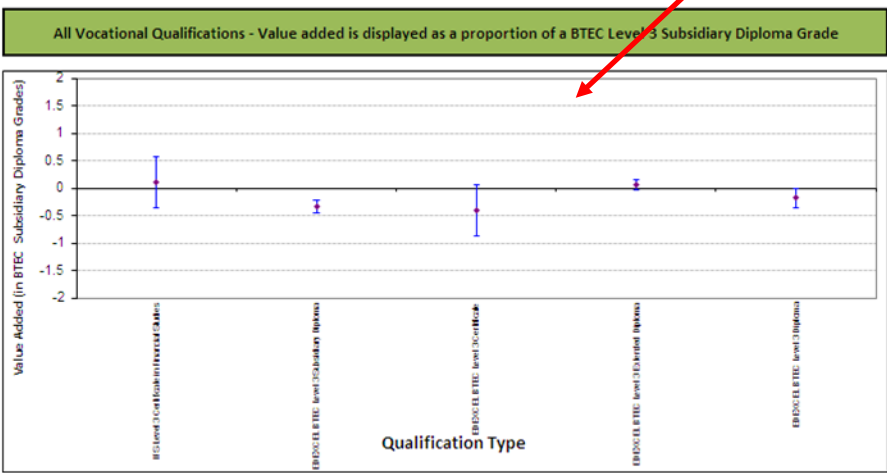
As with the subject summary sheets, the data table below the chart shows whether the provider's value added score within each qualification type is above or below the national average, with statistical significance.



All vocational qualification types entered by the institution are displayed here

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

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 |

# Other Sheets

Qualification, subject and academic / vocational codes to assist with the data input can be viewed in the 'Codes' sheet

2014/15 value added coefficients can be viewed in the 'Coefficients' sheet



## Level 3 VA Score Conversion Tool

If you wish to convert your Level 3 VA scores from grades back into points for comparison with previous years, then use the tool below.

**Step 1: Enter the VA score (in grades) that you wish to convert, its upper confidence limit and its lower confidence limit into the boxes below**

| VA Score (in grades) | Lower Confidence Limit | Upper Confidence Limit |
|---|---|---|
| -0.5 | -1.5 | 0.5 |

**Step 2: Choose the qualification type that this VA score refers to**

| Extended Project (Diploma) |
|---|

Enter the details of the value added score you wish to convert here

**Step 3: Output**

| **Points** | | |
|---|---|---|
| VA Score (in Points) | Lower Confidence Limit | Upper Confidence Limit |
| -4.5 | -13.5 | 4.5 |

The value added score in points is displayed here

| **Grades of given qualification type** | | |
|---|---|---|
| VA Score ('home' grades) | Lower Confidence Limit | Upper Confidence Limit |
| -0.50 | -1.50 | 0.50 |

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