



## **Introduction to D3A2 Ad-Hoc Reporting**

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# Overview of OBIEE Dashboards

Oracle Business Intelligence Enterprise Edition includes a web presentation layer that can display interactive dashboard and reports. Oracle uses some standard terminology for these components. The following section is an overview of the user facing components of dashboards.



Figure 1: Oracle Business Intelligence Enterprise Edition (OBIEE) Dashboard.

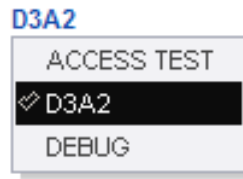
## Available Dashboards



Figure 2: OBIEE Available Dashboards

Across the top of the web page is a list of dashboards to which the current user has access. “The My Dashboard” entry is a personal space that each user can populate with their own content. “D3A2” is the main analytics Dashboard.

A single click on the “D3A2” dashboard link will present the user with 3 sub-dashboards. The “ACCESS TEST” and “DEBUG” dashboards are used for trouble shooting only, and may load slowly if selected. The “D3A2” link is currently the only analytic dashboard.



**Figure 3: The Dashboard list under the "D3A2" item**

## Additional Products



**Figure 4: Additional Products /Option Links**

To the right of the “Welcome User” text is a list of links to related products and options. Each is described below:

**Dashboards** – The Dashboards link is on **bold** indicating that it is the current selection. From the other products, you may use the “Dashboards” link to return to this page.

**Answers** – Answers is the Oracle tool used to define reports. Answers is the main topic of this training.

**More Products** – There are 2 sub options for “More Products”:

**BI Publisher** – This product can be used for “Form” type reports. Form letters, tables and other published documents can be created here. Due to the training and server resources involved, most users do not have access to use BI Publisher.

**Download Oracle BI for Microsoft Office** – OBIEE provides a plug-in for Microsoft Office that allows users to include reports in Excel or PowerPoint. These reports can be made “live” and updated with current data without the need to revisit the website. This is an advanced function, and is not covered in this document.

**My Account** – This link allows a user to set-up some preferences, including default dashboard, locale and contact types for scheduled reports.

**Log Out** - This option logs the user off the system.

## Current Dashboard



**Figure 5: Current Dashboard**

On the bottom left of the header, below the banner image is the name of the current dashboard.

## Dashboard Pages (Tabs)



**Figure 6: Dashboard Pages**

A dashboard Page is a collection of reports, prompts and other elements. Each page is shown as a “Tab”. Users can switch pages with a single click on the tab. Pages do not have to be visible by default. D3A2 uses many hidden pages which only show during drill-downs.

## Prompts (Filters)

DATA DRIVEN DECISIONS **D3A2** FOR ACADEMIC ACHIEVEMENT

My Dashboard **D3A2**

**D3A2**

Current Students | Data Analysis - Lite | Item Analysis - Advanced

School Year: 2005-2006 | School District: Sample District3 | School Name: M00041 Middle Schools | Teacher Name: Hatherly, Felicia S

Grade Level: 04 | Classroom Label: (All Choices) | Test Name: (All Choices) | Go

Figure 7: Prompts

Prompts allow users to interactively filter the data displayed in reports. Most prompts are displayed as drop-down lists of values. Often these values are “constrained” by the values in other prompts.

User’s can manipulate multiple prompt values without redrawing the reports. Only after the “Go” button is clicked will the prompts be applied to the reports.

## Reports

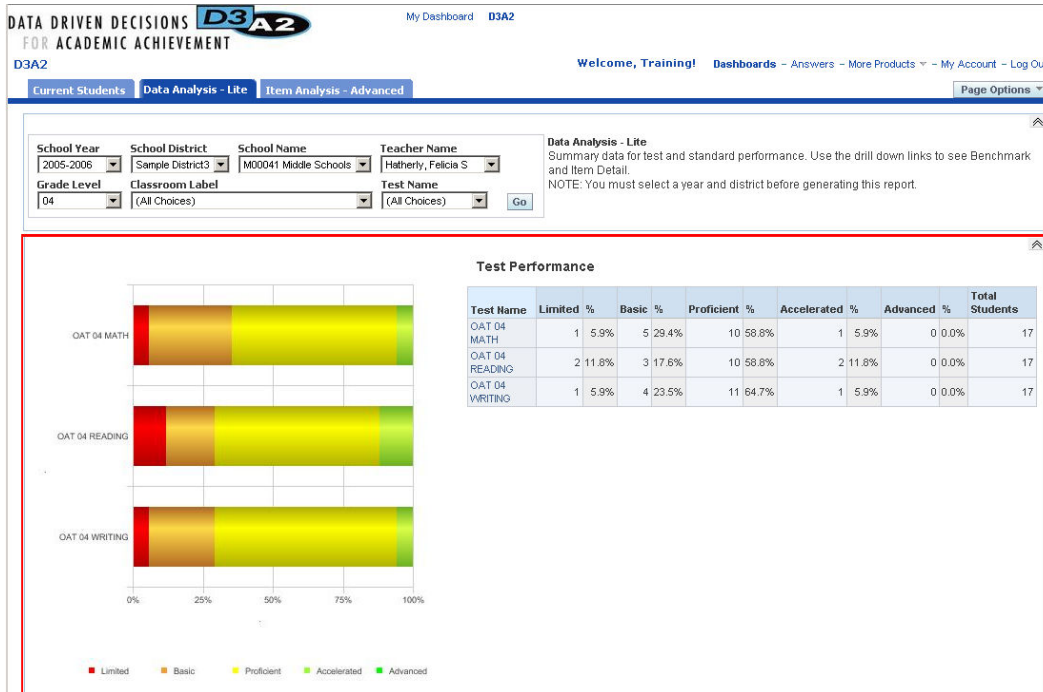


Figure 8: OBIEE Reports

Each dashboard can display one or more Answers request. Each Answers request is a single DB query displayed in one or more formats (called views). In the sample above a single Answers request shows the same data in both Graph and Table views.

Dashboard pages can be segregated into columns and section in order to layout content. Sections are outlined, and by default can be collapsed using the double up arrows in the top right of the section.

## Report Links

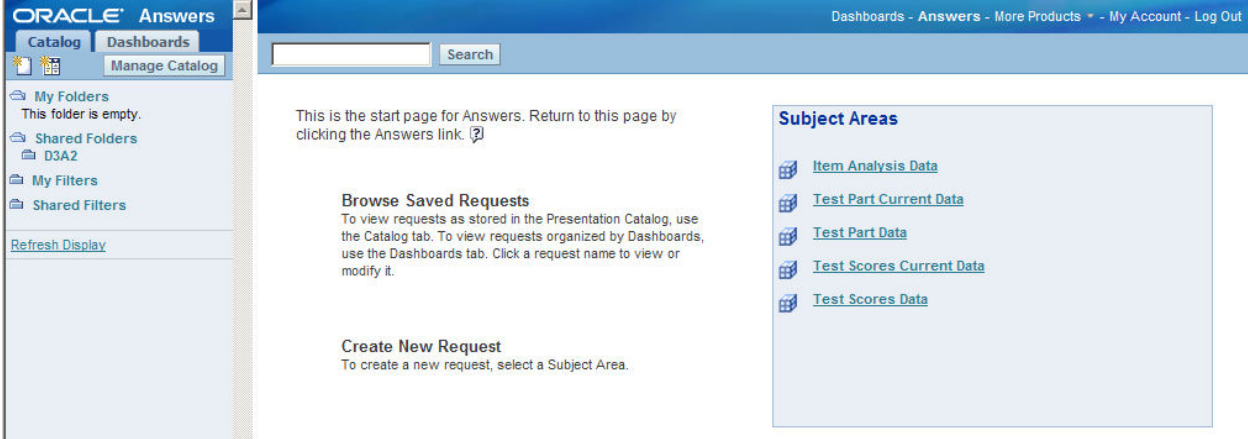


[Print](#) - [Download](#) - [Copy](#)

**Figure 9: Report Links**

When an Answers Request is added to a dashboard, a variety of links may be enabled to allow dashboard users to download, print or otherwise interact with the data in the request.

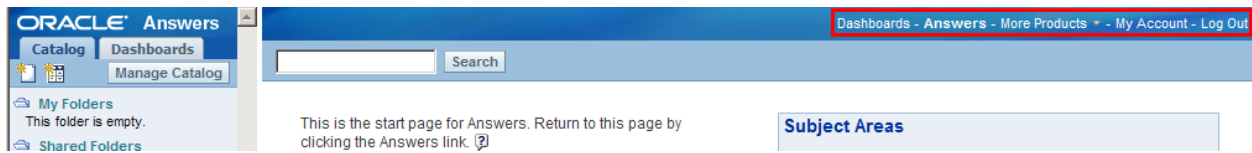
# Overview of OBIEE Answers



**Figure 10: Answers Overview**

The “Answers” link takes the user to the Answers tool. This is where reports, prompts and filters are defined and edited. A database query and its resulting display views are called an “Answers Request”.

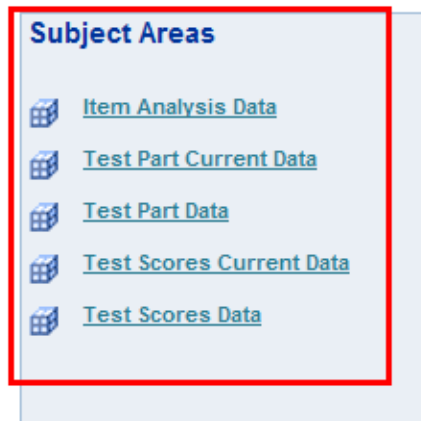
## Product / Option Links



**Figure 11: Answers Product / Options Links**

Answers contains the same set of product and options links that Dashboards uses. Note here that “Answers” is now in **bold**.

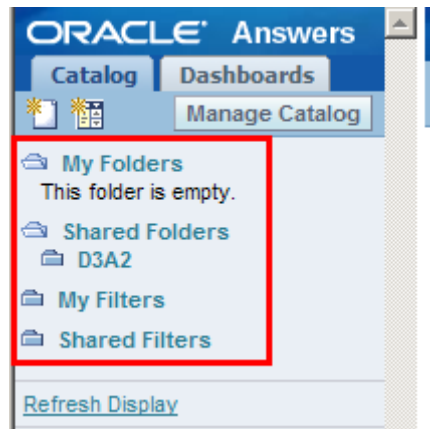
## Subject Areas



**Figure 12: Answers Subject Areas**

OBIEE presents data as clusters of related tables. These clusters are called “Subject Areas”. A single Answers Request generally uses a single subject area. See the section below labeled “The 5 Subject Areas” for a description of each of D3A2’s areas and the data contained therein.

## Folders



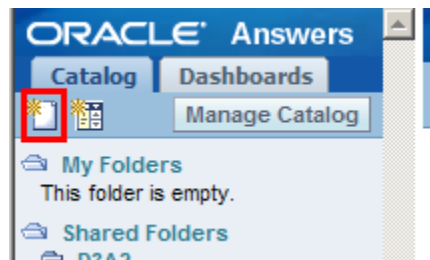
**Figure 13: Answers Folders**

Answers requests can be saved into a number of folders. Each user has a personal space to save custom reports. This is the “My Folders” area.

The “Shared Folders” area contains all of the predefined reports used by the D3A2 dashboard. Only system administrators can save reports into these folders. However, any user can view shared reports. Users can also access any existing report and save a personal version. This makes all predefined reports available as templates.

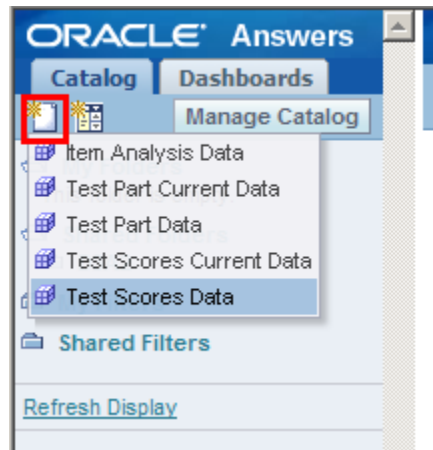
Filters are predefined restrictions on requests that can be included. Filters are often defined for each dashboard prompt. Report writers can then include the filter to ensure that the request properly reacts to prompt value changes.

## New Request



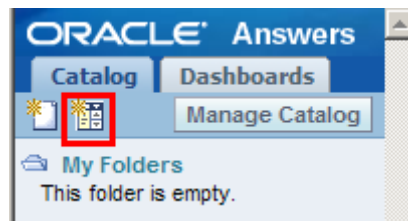
**Figure 14: Answers New Request button**

Clicking on the “New Request” button will start a new Answers Request. The user will select the Subject Area of the request from menu as seen in the figure below.



**Figure 15: Answers New Request subject area list**

## New Dashboard Prompt

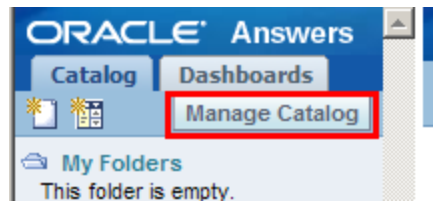


**Figure 16: Answers New Prompt button**

The New Dashboard Prompt button creates a new prompt. The user will be required to select the subject area from a menu just as with new Answers Requests.

Dashboard prompts are “stand alone” interactive filters that can be placed as standard items on a dashboard. How a dashboard prompt effects a given Answers Request is defined in the specific request.

## Manage Catalog

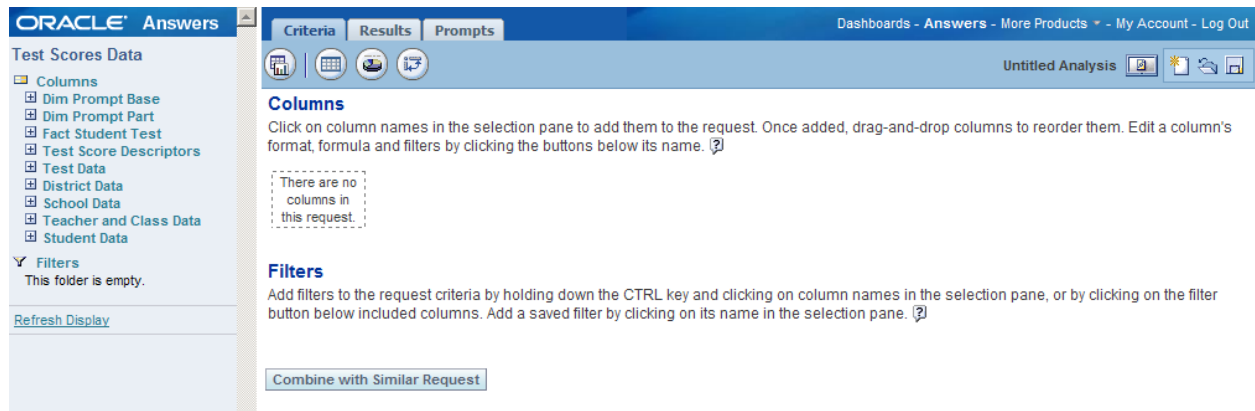


**Figure 17: Answers Manage Catalog button**

The Manage Catalog button is used to manipulate the requests already saved into either the “My Folders” or the “Shared Folders” area, depending on authorization.

Users can rename requests, set request level security and create/manage sub folders through the “Manage Catalog” area.

# Answers Request Overview

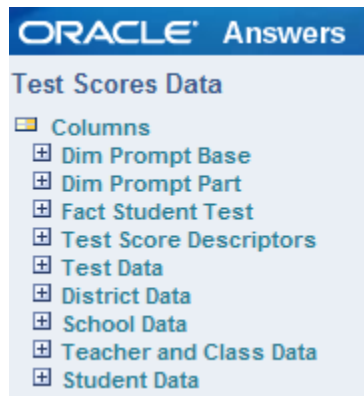


**Figure 18: Answers Request Main interface**

The following section covers the major parts of the interface for creating and editing Answers Requests. This screen is accessible by creating a new Answers Request either by clicking on a Subject Area, or clicking on the “New Request” Icon.

This section covers the components of the screen only. The exercises that follow will go into more detail on actual report creation.

## Columns



**Figure 19: Answers Request available elements**

On the left side of the Answers Request screen is a list of folders containing elements available to be added to requests. Folders can be expanded by clicking on the plus icon (+) to the left of the folder name.

Individual fields can be added to a request with a single click.

## Tabs



**Figure 20: Answers Request Tabs**

Each Answers Request has 3 Tabs of settings. Administrative users will see a 4<sup>th</sup> tab, "Advanced". The common tabs are:

## Criteria

The Criteria tab defines the columns of data displayed and the filters: restrictions on which rows are returned. Column formulas and data formats can also be set for each column here.

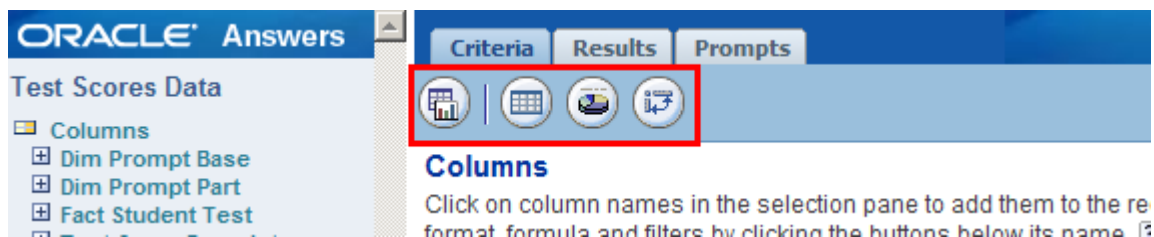
## Results

The results tab shows the defined views of the request. By default, the results tab shows the initial compound view with a table and title. The results tab is used to define additional view types (charts, pivots and additional tables).

## Prompts

The Prompts tab allows developers to implement request-specific prompts. These prompts allow a user to filter the data displayed. Unlike dashboard level prompts, request prompts are set by the user BEFORE the request is generated, and can be mandatory.

## View Bar



**Figure 21: Answers Request View Bar**

The View bar on the Criteria tab allows easy access to the 4 most common views (from left to right):



**Compound:** This button switches to the Results tab and shows the default compound view. The default compound view contains a title view (with the title of the request) and a table showing all the columns in the criteria.



**Table:** This button opens the default Table view of the request showing each column in the criteria.



Chart: This button opens the results tab and displays a chart. NOTE: The chart view is NOT added automatically to the default compound view.



Pivot: This button switches to the results tab and shows the pivot table view. NOTE: This pivot table view is NOT added automatically to the default compound view.

## Action Icons



**Figure 22: Answers Request Action Bar**

The action bar resides in the upper right hand side of the screen. The Actions are (from left to right):



Preview: This button opens a new window showing the current view as it would appear on a dashboard. This is the preferred method for pre-viewing a request.



New: Prompts the user for a subject area and creates a new request in that subject area.



Open: Opens an existing request.



Save: Prompts the user for the name and location where to save this request.

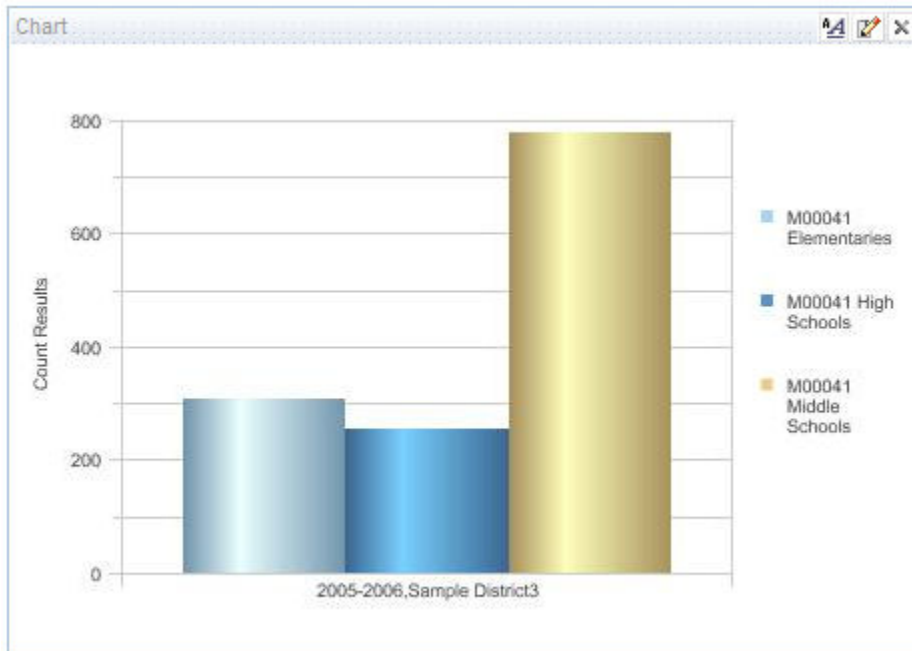
## Types of Answers Requests

Each Answers Request consists of a query called “Criteria” and a set of display elements called “Views” for the data returned. Multiple views can be combined into compound views. Answers Requests on dashboards can be displayed one view at a time.

Some types of views are shown below:

School Year	School District	School Name	Count Results	Count 11s	Count 11s	Count 13s	Count 14s	Count 15s
2005-2006	Sample District3	M00041 Elementaries	309.00	67.00	67.00	138.00	66.00	32.00
		M00041 High Schools	256.00	86.00	86.00	181.00	88.00	36.00
		M00041 Middle Schools	780.00	181.00	181.00	524.00	176.00	44.00

**Figure 23: Answers Sample Table View**



**Figure 24: Answers Sample Bar Chart View**

Pivot Table				
	Count Results			
School Year	M00041 Elementaries	M00041 High Schools	M00041 Middle Schools	Count Results Total
2003-2004	231.00			231.00
2004-2005	296.00	177.00	620.00	1093.00
2005-2006	309.00	256.00	780.00	1345.00
<b>Grand Total</b>	<b>836.00</b>	<b>433.00</b>	<b>1400.00</b>	<b>2669.00</b>

Figure 25: Answers Sample Pivot Table View

Criteria Results Prompts Dashboards - Answers - More Products

Compound Layout Untitled Analysis

Add View:

Pivot Table				
	Count Results			
School Year	M00041 Elementaries	M00041 High Schools	M00041 Middle Schools	Count Results Total
2003-2004	231.00			231.00
2004-2005	296.00	177.00	620.00	1093.00
2005-2006	309.00	256.00	780.00	1345.00
<b>Grand Total</b>	<b>836.00</b>	<b>433.00</b>	<b>1400.00</b>	<b>2669.00</b>

Table							
School Year	School Name	Count Results	Count 11s	Count 11s	Count 13s	Count 14s	Count 15s
2003-2004	M00041 Elementaries	231.00	57.00	57.00	50.00	39.00	24.00
2004-2005	M00041 Elementaries	296.00	61.00	61.00	110.00	62.00	43.00
	M00041 High Schools	177.00	90.00	90.00	130.00	54.00	18.00
	M00041 Middle Schools	620.00	66.00	66.00	367.00	113.00	46.00
2005-2006	M00041 Elementaries	309.00	67.00	67.00	138.00	66.00	32.00
	M00041 High Schools	256.00	86.00	86.00	181.00	88.00	36.00
	M00041 Middle Schools	780.00	181.00	181.00	524.00	176.00	44.00

Figure 26: Answers Sample Compound View

## **The 5 Subject Areas**

In the D3A2 system, there are 5 defined subject areas. There is some overlap of data among them, but they each serve a specific purpose. The 5 Subject Areas are:

### **Item Analysis Data**

Item Analysis Data contains pre-calculated data about classroom performance on OAT and OGT assessment items, standards and benchmarks. This data is aggregated at the classroom, school and district level. No student data is available in this domain.

Use this subject area to analyze item, standard or benchmark performance across schools or classes.

### **Test Part Current Data**

The Test Part Current Data subject area contains data about student OAT and OGT performance at the standards level. This data is organized based on re-rostered data. That is, students are grouped by the classes they are enrolled in today.

Test performance is reported in 3 proficiency bands at the standard level (below, near or above).

Use this subject area to see how students in your class today performed on their previous tests.

### **Test Part Data**

The Test Part Data subject area contains data about student OAT and OGT performance at the standards level. This data is organized based on class rosters at the time of the test.

Test performance is reported in 3 proficiency bands at the standard level (below, near or above).

Use this subject area to see how students performed on tests in prior years while in your class.

### **Test Scores Current Data**

The Test Scores Current Data subject area contains data about student OAT and OGT performance at the subject level. This data is organized based on re-rostered data. That is, students are grouped by the classed they are enrolled in today.

Test performance is reported in 5 proficiency level bands at the  subject level.

Use this subject area to see how students in your class today performed on their previous tests.

## **Test Scores Data**

The Test Scores Data subject area contains data about student OAT and OGT performance at the SUBJECT level. This data is organized based on class rosters at the time of the test.

Test performance is reported in 5 proficiency level bands at the subject level.

Use this subject area to see how students performed on tests while in your prior year classes.