SELECT SUCCESS

Andrew Woodbridge, Grover Cleveland High School
Oracle Training Taxonomy

- Working in groups of 2-3 at your tables:
  - Write as many words as you can associated with Oracle Training on your taxonomy sheets.
  - You have 5 minutes
Oracle Training Taxonomy

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- This activity type of activity gets everyone on the same page and allows the teacher to see what prior knowledge is available
Overview

- Grover Cleveland High School
  - AOIT
  - Oracle Academy

- What does Education Look Like Today?
  - Project Based Learning
  - Digital Classroom
  - College & Career Ready Education

- What Skills are Most important?
  - Current Offerings
  - Career Paths
Grover Cleveland High School

- General Education, Zone High School
- Ridgewood, Queens

Population
- 64% Hispanic
- 24% White
- 7% Asian
- 5% Black
Academy of Information Technology

- Academy is 8 years old
- Partnership with the National Academy Foundation
- Provides Curriculum, Internships, and Development
- http://naf.org for more information
Oracle Academy

- Four semester sequence (you’ll see the sequence in a moment)
- Culminates in students earning OCA in PL/SQL
- Includes a Keystone Data Modeling Project.
- Oracle provides teacher training, curriculum, and a web hosted database (APEX)
- http://academy.oracle.com
NAF/Lenovo Android Pilot

- One of only five schools in the country
- Received 30 android tablets, and 6 desktops
- Offering a Semester long Android App Development Java course
Our Upper Level Students
## Current Course Sequence

<table>
<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sophomore Year</strong></td>
<td>Career &amp; Financial Management</td>
<td>Introduction to Information Technology</td>
</tr>
<tr>
<td><strong>Junior Year</strong></td>
<td>Data Modeling</td>
<td>SQL</td>
</tr>
<tr>
<td></td>
<td>Digital Media</td>
<td>Hardware</td>
</tr>
<tr>
<td><strong>Junior Year Summer Internship Experience</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td>Intro to Programming</td>
<td>Android App Dev.</td>
</tr>
</tbody>
</table>
What Does Education Look Like?
Digital Classroom

- Web Based Resources
  - Curriculum & Database
  - All assignments and class materials are maintained on a Wikispace
    - http://awoodbridge.wikispaces.com
  - Grading done on Engrade so students and parents can access it anywhere
Digital Classroom

- Tools
  - Email available to students when they have questions in the evenings.
  - Scrumy to Manage Products
  - Student generated Wikispaces for projects
  - Microsoft Tags to help move documents around
  - GoogleDocs forms for some quizzes and surveys.
Project Based Learning

- Authentic
- Engaging
- Student Centered
- Buck Institute for Education

http://bie.org
Career & Technical Education Programs

- 21st Century Skills
- Academic Standards
- Technical Content
2012 Data Modeling Keystone Project

- Partnered with New York Public Library Pforzheimer Collection
- Students worked in companies of three people
- Visited library to interview the collection bibliographer
- Designed a data model to meet the collections needs
- Returned to the library to present their solutions
What skills are most important?

Students that are Career & College Ready
What are the challenges?

- Not every student is planning to go into a DBA or Developer Career Path
  - What skills will be the most transferable between jobs?
- Oracle Exams are extremely difficult for our students to pass.
  - Does that certification really make or break our students?
- Oracle Academy Curriculum is Not Project Based
  - What are some authentic problems for our students to solve?
How do we serve different career paths?

Where do our Students Go?

Database Careers

IT Careers

Non IT Careers
# Sequencing & Certification

## PL/SQL Oracle Certified Associate

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Term</th>
<th>Spring Term</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Year</td>
<td>Data Modeling</td>
<td>SQL</td>
<td>1Z0-007</td>
</tr>
<tr>
<td>Senior Year</td>
<td>PL/SQL 1</td>
<td>PL/SQL 2</td>
<td>1Z0-147</td>
</tr>
</tbody>
</table>

## SQL Certified Expert

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Term</th>
<th>Spring Term</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Year</td>
<td>Data Modeling</td>
<td>SQL</td>
<td>1Z0-047</td>
</tr>
<tr>
<td>Senior Year</td>
<td>Java</td>
<td>Android App</td>
<td></td>
</tr>
</tbody>
</table>
Making Authentic Experiences

- What types of problems do you solve?
- What skills do you need to solve those problems?
In Closing

- We are always looking for partnerships and new experiences
- We truly appreciate your input
- Contact Information
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  - http://awoodbridge.wikispaces.com

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