GWTIP Educational Transfer Plan (2011)

Teacher Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Nicole (&quot;Nikki&quot;) Kezmarsky</th>
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<tbody>
<tr>
<td>School</td>
<td>Loudoun County High School</td>
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<tr>
<td>Grade Level and Content</td>
<td>9-12 Mathematics (Calculus, PreCalculus, Statistics, Discrete Math)</td>
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<tr>
<td>Email</td>
<td><a href="mailto:Nicole.Kezmarsky@lcps.org">Nicole.Kezmarsky@lcps.org</a></td>
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Companies Visited

- 2011 - MWAA, Lockheed Martin
- 2010 - Telos, Fortessa
- 2009 - Telos, PPI

Educational Transfer Plans

Workplace Competencies (21st Century Skills)

**Statistics at the Airport**: Students will visit Dulles Airport and find data that can be collected and analyzed. They will prepare a report using Microsoft Excel, Word, and other programs for analyzing statistics.

Through this project, students will demonstrate workplace competencies including planning & organization, workplace computer applications, checking, estimating & recording.

Academic Competencies (SOLs)

The students’ projects will follow the Virginia state standards for a semester statistics course which include collecting and analyzing data, incorporating graphical representations of data, and predicting outcomes based on trends in data.

Personal Effectiveness Competencies (Dispositions)

Students will exhibit professionalism and integrity when interacting with airport personnel. They will show initiative in choosing a topic for their data analysis project and a willingness to learn throughout the experience.

Additional Classroom Applications:

- Form mentoring partnerships between students and business partners so that students can email business professionals with shared interests.
- Form a “Hacker” Competition team with a mentor from the Cyber Security industry.
- Use Proposal Evaluation Guidelines as a model for creating rubrics for student assessments.
- Use plane flight paths as examples when studying 2-dimensional and 3-dimensional vectors.
- Explore angles used in stealth technology when studying triangle and trigonometry topics.
- Arrange for a series of business professionals to speak to groups of students about various careers.