Functionality of Cloud Computing in Secondary Education

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Introduction

• With decreased budgets and higher IT costs, secondary schools look to the cloud for a cost-effective solution.

Problem Statement

• Aim to determine how Microsoft Office 365 and Google Apps for Education impact grades 7-12.
• Comparison of storage and collaboration.
• Use of FedRAMP policies to test availability.

METHODS

Microsoft Office 365 (365)  Google Apps for Education (GAE)

Collaboration  365  GAE

Teacher-Student  Comment & Review  Can Comment & Edit

Student-Student  Formal Co-Authorship  Power of the Creator

Storage  365  GAE

Capacity  50 GB / user  30 GB / user

Availability  +  Accessed anywhere  Accessed anywhere

- iPad interface  Uploaded file limitations

Recommendations for Collaboration

• In the classroom, shared 365 and GAE documents should only be VIEW ONLY.
• 365 could improve by creating an option to allow each assignment to be individually sent to each student to avoid the likely chance of manipulation.
• The distortion of documents into Google Docs from other software programs.
• Collaboration on school networks increases the liability of cyber-bullying