



HCPS

The right to achieve.
The support to succeed.



Cloud Services and Student Data Privacy in Henrico County Public Schools

November 18, 2014

Agenda

- District Overview
- Cloud Services
- Content Filtering
- Digital Citizenship
- Student Information System

Henrico County Public Schools

- 49,894 Students
- 6,672 Staff
- 75 Facilities
 - High speed internet access at all locations
 - Wireless network access at all locations
- 1:1 Computing Initiative
 - World's first K-12 1:1, started in 2001
 - All secondary students (25,000)
 - Elementary students have access to classroom and cart based computers and tablets

Cloud Services

- Cloud Computing
 - New approach to traditional networked computer services
 - Web Technology
 - Platform agnostic
- HCPS has been using cloud services for over 14 years
- Public vs. Private Cloud vs. Hybrid
 - HCPS uses all approaches
 - Public – Google
 - Private – SchoolSpace Learning Management System
 - Hybrid – Staff email using Microsoft Exchange and Office 365, Pearson Test Nav

Cloud Services

- Services used by Teachers
 - Google Docs
 - Office 365
 - Talent Ed
- Services Used by Student
 - Google Apps for Education
 - Gmail (Secondary students)
 - Content services (YouTube for Education, Learning, Discovery, Study Island, Brain Pop)
 - Assessment tools (IA, Pearson Test Nav, NWEA)

Cloud Services

- Terms of Service
 - Many cloud services restrict usage to certain age groups (ex. 13+)
 - HCPS works with cloud vendors to ensure terms of service for age and data usage are aligned with policy and for student use
 - Reliance on free services limits HCPS control
 - Providing professional development to teachers regarding terms of service
- Personally Identifiable Information
 - Definition: Information that can be used on its own or with other information to identify, contact, or locate a single person, or to identify an individual in context.
 - HCPS limits content shared with vendors on a need to know basis
 - Clear data usage protocols documented in policies and contract language

Content Filtering

- Requirement to Qualify for e-Rate Funding
 - Children's Internet Protection Act
 - Child Online Protection Act
- YouTube for Education
 - Educational content
 - Instructionally relevant and vetted
- Exception Process
 - Instructionally relevant content
 - Reviewed by HCPS content specialists

Digital Citizenship

- Appropriate behavior instead of tight control
 - Technology will never provide a perfect solution
 - Emphasize classroom management and engagement
- Internet Safety Training
 - Teachers, Students and Parents
 - Additional training for rising 6th graders and parents
 - Social Media usage
- Acceptable Use Policy
 - Outlines appropriate and inappropriate technology usage
 - Applies to students and staff
 - Signed by students and parents
- Information Security
 - Network and system controls to limit unauthorized access
 - Strong passwords for all users

Student Information System

- Pearson PowerSchool
 - Web based and public facing
 - Demographic information
 - Grades
- Locally hosted
 - All PowerSchool servers hosted at the HCPS datacenter
 - Limited system integration with other services
 - Data shared with other services is pre-defined by HCPS
 - Aligned with privacy policies
- User Identity Management
 - Active Directory (AD) repository of user information
 - PowerSchool and other systems use AD for authentication and authorization services
 - AD servers hosted at the HCPS datacenter

Questions?