History of Computers in Education

Phase 1: 1977-1982

2

computer = object of study

Phase 2: 1983-1990

Java RUBY
C# •NET
PHP
My SQL

computer = programming tool

Phase 3: 1991-1996

WWW
Microsoft Windows 95

computer = communication device/resource tool

Web 2.0

Phase 4: 1997-Present

computer = learning/social tool

ISTE Standards

Teachers

creativity   teach and assess

TEST

safety and etiquette

RUMORS
teasing gossiping
insults   threats
CYBER BULLYING
LIES
name-calling
harassment
mean words

communicate

Notice the similarities!

Students

safety and etiquette

creativity

RUMORS
teasing gossiping
insults   threats
CYBER BULLYING
LIES
name-calling
harassment
mean words

research and evaluation

RESEARCH

communicate

Stages of Technology Integration

1 beginning
-Selects resources
-Discuss strategies
-Design instructional activities

2 developing
-Student understanding
-Guide students
-Adapt instruction
-Students use technology

3 proficient
-Model resources & creativity
-Design activities based on students' learning style
-Students use technology

4 transformative
-Engage & explore
-Collaborate with students
-Create activities with students
-Students collaborate

Chapter 1 Questions:

Q: What are some differences between the beginning of Phase 4 and Phase 4 now?

Q: What might technology integration look like in different grades? In SPED?

Q: How do schools in impoverished areas meet ISTE standards? Are consequences they may face fair?