



Chromebooks in Education

Instructor/Presenter: Karina Barley – M.Ed.

Length: 45 Hours

Online Course

Introduction

This course is a full guide for teachers using Chromebooks in the classroom. Our Chromebook course is different to any other, as it not only provides instruction on apps and how to use them; it demonstrates how using the Chromebook and Android apps can reflect the *Core Standards*; and then links the *Core Standards* to classroom content by providing opportunities for practical lesson design and assessment.

This course has been written specifically for educators by an educator, and provides practical and usable strategies and ideas that can be taken back to the classroom. 21st Century learning is now a reality and the Chromebook is an educational tool that can create exciting and innovative experiences for students that will motivate and inspire them to learn.

This course is jam packed with links to apps, *Core Standards*, resources, video, ideas for curriculum use, and strategies for educators to create their lessons so that they can differentiate their learning for their students.

Course Objectives

You will be provided with opportunities to:

- Discover the Chromebook works and also uncover hidden uses of Chromebooks.
- Understand how Chromebook/Android apps can reflect the *Core Standards* and learning outcomes.
- Incorporate mobile technology into your daily lesson plans.
- Develop the use of Android apps as an assessment tool.
- Develop the concept of what a Chromebook classroom can look like.
- Appreciate the benefits for students.

Learning Objectives

- An understanding of why Chromebooks are effective in the classroom and why they are beneficial for students.
- The student's perspective on Chromebooks. Why do kids like them?
- An understanding of *Bloom's Digital Taxonomy* and a direct correlation to mobile technology and app practice in the classroom.
- How to incorporate *Bloom's Digital Taxonomy's* learning objectives into your lesson outline using the Chromebook and Android apps.
- Practical links, ideas and suggestions for how you can create your own Chromebook classroom.
- To develop an understanding of the *Core Standards* and develop strategies for integrating these standards into all classroom planning including and especially using the Chromebook as a teaching tool.
- Links to the *Core Standards* and how *The Standards* should be considered when creating lesson content using Chromebooks and apps.
- Provides a brief overview on the long term goals of *The Standards* and the importance of their introduction into American education.
- How using the Chromebook in the classroom can meet these goals.

Session Topics

1. Starting out.
2. Settings, security and childproofing.
3. Apps, photos and screenshots.
4. Using Chromebooks for Flip Teaching.

5. Chromebooks in the classroom.
6. Chromebooks and the curriculum - English – Reading.
7. Chromebooks and the curriculum - English – Writing, and Speaking and Listening.
8. Chromebooks and the curriculum – Math.
9. Apps for Literacy.
10. Apps for Numeracy.
11. Apps in other curriculum areas.
12. How to search for apps.

Methods of instruction will include:

- Individual lessons.
- Multiple-choice quizzes.
- Assignments.
- Video, Android resources and Android apps, web links.
- Optional essay for further study.

Text and/or other materials

Video, screen captures, multiple-choice quizzes, web links and links to apps are provided by the instructor in this online course. There are NO required textbooks.

Assignments

This course has twelve assignments.
The course includes twelve multiple-choice quizzes.

Percentage of Course Credit

Quizzes: 100%

Assignments: Mandatory - but ungraded.

OUTLINE OF COURSE

Lesson One - Getting Started

- Why are we using mobile technology in schools in the first place?
- Why use Chromebooks in the classroom?
- What to consider before you deploy mobile technology into your school and classrooms?
- Ways to use the Chromebook.
- Core app list for setting up your classroom.
- Develop an understanding as to why you would use mobile technology in the classroom.
- Develop an educational foundation from which to develop a mobile technology program within the school and classroom.
- Develop ways to use Chromebooks in your classroom.
- Build a foundational core list of apps to start a Chromebook program for your classroom.

Lesson Two - Settings, security and childproofing

- How to personalize your settings on your Chromebook.
- Security issues on the Chromebook and security tips.
- Childproofing your Chromebook.
- Organizing your Chromebook.
- Methods of organizing apps on the Chromebook.
- Can you use 'cloud' storage?
- Developing a mobile device policy.
- Develop an awareness of the settings icon on the Chromebook and learn how to use settings to childproof the Chromebook in school arenas.
- Learn how to make the Chromebook more secure and child friendly.
- Understand the importance of creating a mobile technology policy for the school and classroom.
- Have the skills and knowledge to write a mobile technology policy for your classroom.
- Teachers will learn how to organize their Chromebook and Android apps into folders and understand why it is important for classroom organization.
- To understand how the 'cloud' technology works and why the cloud is important to classroom management of mobile devices.

Lesson Three - Educational apps, photos and screenshots

- Educational apps.
- What to do if you have a problem with your apps.
- Why use photos in classroom lessons?
- Apps that can use photos.
- Learn how to search for apps that are suitable for classroom needs.
- How to fix problems that occur with apps.
- How to take screenshots on the Chromebook and how teachers can use screenshots for record keeping and assessment.
- How to transfer photos.
- Develop an understanding of why using photos in lessons can be valuable and ideas on how to use photos in lessons.
- Gain awareness on the types of apps that utilize photos.
- Ideas on how to use photos within lessons.

Lesson Four - Using mobile technology for Flip Teaching

- What is a Flipped Classroom?
- Chromebooks and Flip Teaching.
- Using QR codes for Flip Teaching.
- Screencasting using the Chromebooks and the link to Flip Teaching.
- Augmented reality apps.
- To comprehend what flip teaching is and why the Chromebook is an effective tool for this style of teaching.
- To gain an appreciation for why you would use Flip Teaching in a 21st Century classroom.
- To have knowledge of the types of apps that can be used for Flip Teaching, using the Chromebooks.
- To have some foundational understanding of how to use these apps to develop a Flip Teaching lesson.

Lesson Five - Chromebooks in the classroom and Bloom's Digital Taxonomy

- Why is mobile technology so effective?
- What does the mobile technology classroom look like?
- How does this affect student learning?
- *Bloom's Digital Taxonomy*.
- QR codes in the classroom.
- An understanding of why mobile devices are effective in the classroom and why they are beneficial for students.
- The student's perspective on tablets... Why do kids like them?
- An understanding of *Bloom's Digital Taxonomy* and a direct correlation to the Chromebook and app practice in the classroom.
- How to incorporate *Bloom's Taxonomy's* learning objectives into your lesson outline using the Chromebook and Android apps.
- Practical links, ideas and suggestions for how you can create your own mobile technology based classroom.

Lesson Six - Chromebooks and the curriculum – English: Reading

- How can the *Common Core State Standards* and *The Standards* can be reflected utilizing the Chromebook within classroom activities.
- From elementary to high school.
- *College and Career Readiness Anchor Standards for Reading*.
- Develop an understanding of the *Core Standards* and develop strategies for integrating these standards into all classroom planning including and especially using the Chromebook as a teaching tool.
- Links to the *Core Standards* and how *The Standards* should be considered when considering lesson content using Chromebook and its apps.
- Provides a brief overview on the long term goals of *The Standards* and the importance of their introduction into American education.
- How using the Chromebook in the classroom can meet these goals.
- *College and Career Readiness Anchor Standards for Reading* and the types of apps that can be utilized to develop these standards.
- Understand what the 3 strands of the *Literacy Core Standards* are and how they interrelate to become the *English Core Standards*.

Lesson Seven - Chromebooks and the curriculum – English: Writing, and Speaking and Listening

- *College and Career Readiness.*
- Apps that can be utilized in each writing area.
- How to create English lessons that reflect *The Standards* using Chromebooks.
- *College and Career Readiness Anchor Standards for Speaking and Listening.*
- Teachers to understand *The Standards for Writing* and what students should be able to do by the end of each grade, and how using the Android tablet can assist in meeting *College and Career Readiness Anchor Standards for Writing.*
- Be aware of the types of apps that can be utilized to develop *The Standards for Writing.*
- Teachers to understand *The Standards for Speaking and Listening* and what students should be able to do by the end of each grade and how using the Chromebook can assist in meeting *College and Career Readiness Anchor Standards for Speaking and Listening.*
- To be aware of the types of apps that can be utilized to develop *The Standards for Speaking and Listening.*
- The opportunity to create writing lessons using mobile technology and apps ensuring *The Standards* are the basis for the lesson content.
- To be able to develop lesson outlines with *The Standards* as the foundation for all curriculum planning.

Lesson Eight – Chromebooks and the curriculum – Math

- Overview of The Practices as stated in *The Standards.*
- How to create math lessons that reflect *The Standards* using the Chromebook.
- To have an awareness of the expectations of 'practices and proficiencies' in the *Mathematics Standards* and what types of Android apps can be used to demonstrate the qualities required in each section.
- To be exposed to a range of Chromebook Math apps from P-12.
- To be able to take any of the 'practices' within the *Core Standards for Mathematics* and be able to create a Math lesson using any math Android app.
- To understand and develop your own understanding of how *The Standards* will affect and improve your teaching and whether the Chromebook tablet and the many math apps will add to this understanding.
- To be able to develop Math lessons/curriculum using the Chromebook and Android apps, while being mindful of *The Standards.*

Lesson Nine - Apps for Literacy

- Apps for Reading.
- Apps for Writing.
- Apps for Speaking and Listening.
- Develop an understanding of why Reading, Writing, and Speaking and Listening apps are important in the Literacy program.
- To be aware of what kinds of classroom experiences can be provided using Chromebook apps in all three areas.
- To be exposed to a range of apps that can be used in the Reading, Writing, and Speaking and Listening program for all ages.
- Have experience in creating lesson content integrating Chromebook apps.
- To think about using the Chromebook and apps from the student's perspective.

Lesson Ten - Apps for Numeracy

- Elementary Math apps.
- Senior Math apps.
- Learn and identify key points in Mathematics according *The Standards.*
- Become aware of the types of apps that exemplify *The Standards* as they encompass one or more of the key points.
- Be exposed to how to use the Chromebook and Android apps with direct links to YouTube videos that provide reviews or explanations on how to use specific apps.
- Be provided with opportunities to use the apps to create lesson or curriculum ideas.
- To be able to observe what other schools have achieved using mobile technology in their classroom with direct links to websites, blogs and YouTube videos.

Lesson Eleven - Apps in other curriculum areas

- To experience a range of apps in other curriculum areas such as History, Geography, Science, Art and Music.
- To gain an understanding of the 'agile space' and how this relates to mobile technology and the curriculum.
- To be exposed to how to use Chromebook apps in other curriculum areas with direct links to YouTube videos that will provide reviews or explanations on how to use these apps.
- To gain knowledge about apps that can be used across many curriculum areas.
- To explore apps that can be used by the teacher in the classroom as a testing and quiz tool.
- Provides an opportunity to design lesson content in other curriculum areas utilizing the Chromebook and Android apps.
- To understand what it means to be digitally creative, and reflect on how to evolve and improve one's individual teaching methods and experiences.

Lesson Twelve - How to search for apps

- Suggestions for purchasing apps.
- Some things to consider when evaluating and/or purchasing an app.
- Checklist for apps and how effective they are in the classroom.
- Learn how to search and choose apps for your specific classroom needs.
- Understand the importance of evaluating apps for classroom use.
- Gain a profile of the types of apps especially sought after by educators.
- To practice completing an evaluation pro forma for assessing Chromebook apps as to the benefit for use in lessons.