

# Technology in Education Package #1 (25 Hours)



When technology is used in the classroom, teachers have legitimate considerations related to appropriateness, discipline, effectiveness, and safety. How can teachers use the right apps to align with classroom objectives and standards? How do teachers communicate about educational technology with parents? Implement templates for Technology Use Agreements, determine the best apps, evaluate engagement with technology, and explore expert tips for classroom management.

The Technology in Education Package #1 includes 5 self-study courses (5 hours each) for a total of 25 hours of professional development.

- Apps for Education
- Internet Safety in a Connected World
- Introduction to Technology
- iPads in the Classroom
- Technology in the 21st Century Classroom

# Apps for Education



## Standards:

This course aligns to the INTASC Standards including Learner Development, Learning Differences, Learning Environments, Content Knowledge, Application of Content, Planning for Instruction and Instructional Strategies.

It also aligns to the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Know Content and Teachers Facilitate Learning.

Integrate Ruben Puentedura's SAMR model with Alan November's work on Transformative Learning to find the best apps to educate YOUR students.

In this course, teachers will be equipped to go beyond using an app merely because someone else has recommended it and fully examine the true learning potential.

With an integrated approach, teachers can successfully consider an apps' connections with curriculum content and ability to amplify existing learning levels, while systematically evaluating their transformative learning capability.



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# Apps for Education

## Course Outline

### LESSON 1: Considerations, Content and Components

- Apps that encourage students to engage with a greater degree of independent thought
- The key skills in Bloom's Taxonomy and how they can be applied while considering an app for educational use
- Using November's Digital Learning Farm to empower students with targeted apps
- The use of apps to teach the various "multiple intelligences" in Garner's learning theory
- Specific skills and literacies essential for effective teaching and learning in the 21st century and choosing apps that promote their development
- Essential content and components to look for in apps

### LESSON 2: Logistics and Fluency

- Common logistical concerns with using apps, and how to address and anticipate them
- The importance of achieving fluency in app usage to ensure better learning potential
- Essential phases in app fluency to measure against an app's performance

### LESSON 3: Learning with Apps

- Transitioning from using apps to "substitute" traditional teaching, to a more transformational approach
- Ways to enhance students' learning through Puentedura's SAMR models
- The integration of November's three phases to ensure rigorous app evaluation
- The use of concrete evidence of students' learning as the ultimate decider on the future use of an app

### LESSON 4: Sample Evaluation and Recommendations

- Evaluation of an app against all the considerations discussed in the course to find one with optimal teaching potential
- Recommended apps, across iOS, Android and Windows platforms, for the following classroom purposes: Storytelling, Photography, Visualization and Mind Mapping, Note Taking, Book Creators, Screen Casting, Word Clouds, Photo Collages, Drawing, Video, Audio Recording



5 Hours  
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# Internet Safety in a Connected World



## Standards:

This course aligns to the INTASC Standards including Learning Environments and Planning for Instruction.

It also aligns to the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Facilitate Learning and Teachers Analyze and Reflect.

Technology has become an integral part of our lives, but it also presents risks - especially for children.

In this course, teachers learn about the different kinds of online threats and how they can protect themselves and their students. The course includes:

- Social media
- Texting
- Video games
- Cyberbullying
- Online predators
- Tips & tools for protecting children online
- And more....



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# Internet Safety in a Connected World

## Course Outline

### LESSON 1: Connecting on the Internet

- Social media
- Features and red flags of social media
- Posting and viewing photographs and videos safely
- Smart watches

### LESSON 2: The Internet in Daily Life

- Diverse means of electronic communication
- Gaming and virtual worlds
- E-commerce and digital footprints
- Existing dangers
- Interactive scenarios:
- Handling peer pressure and secure chatting options

### LESSON 3: Downloading from the Internet

- Shielding unauthorized copying and piracy
- Sending out files
- Plagiarism
- Software that harms computers and guidelines to prevent this

### LESSON 4: Staying Safe on the Internet

- Online predators and their behaviors – grooming and gifting
- Cyberbullying: forms and effects
- Monitoring software and parental controls with usage agreements
- Reporting online crimes, gathering evidence, and calling for help



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# Introduction to Technology



## Standards:

This course aligns to the INTASC Standards including Learner Development, Learning Environments, Content Knowledge, Application of Content, Assessment, Planning for Instruction and Instructional Strategies.

It also aligns to the McRel Teacher Evaluation Standards including Teacher Leadership, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

This course introduces and examines technology for educators teaching in a variety of contexts, including in-person, online, and hybrid.

You will develop a better understanding of how to use technology tools and resources to increase engagement in learning and enhance your instructional practices. Tutorials and tips demonstrate applications and guide teachers in improving tech skills and gaining confidence in use.



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# Introduction to Technology

## Course Outline

### LESSON 1: Technology Basics

- Computer basics
- Email
- Benefits and harmful effects of technology
- Devices and gadgets for the classroom

### LESSON 2: Platforms and Providers

- Spreadsheets and Word processing
- Presentation software
- Organization using cloud-based storage applications

### LESSON 3: Interactive Technology

- Digital scavenger hunts
- Interactive quizzes and activities
- Design tools

### LESSON 4: Types and Models of Learning

- Flipped and hybrid classrooms
- Learning Management Systems (LMS)
- Webinars and video conferencing tools



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# iPads in the Classroom



## Standards:

This course aligns to all of the INTASC Standards including Learner Development, Learning Differences, Learning Environments, Content Knowledge, Application of Content, Assessment, Planning for Instruction and Instructional Strategies.

It also aligns to all of the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

This introductory tech course explores different ways the iPad can be integrated into the learning process.

In addition to practical learning activities and ideas, this course helps teachers:

- Find and use teaching apps
- Organize iPad activities in the classroom
- Set up the classroom environment to encourage efficient iPad use
- Manage iPad maintenance
- Use iPads to teach and practice skills, including communicating, collaborating, connecting, creating, and critical thinking



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# iPads in the Classroom

## Course Outline

### LESSON 1: Introduction

- Understanding the role and limitations of iPads in education
- Exploring how iPads can be used to develop essential skills
- Identifying traits of automation, transformation, and pioneering
- Importance of developing a smooth workflow, learning flow, and fluency

### LESSON 2: iPads as A Teaching and Learning Tool

- Understanding the importance of integrating iPads into the classroom
- Examining iPads as an effective tool in fulfilling essential teaching functions, from routine tasks, to curating information
- The ability of iPads to promote student learning through differentiation, personalization, and ultimate enhancement of individual learning

### LESSON 3: iPads and Basic Classroom Management

- The features, advantages, and challenges of the different types of iPad distribution
- Considerations and importance of creating a classroom management plan to facilitate smooth iPad integration into the learning process
- Creating appropriate class rules, securing students' focus, implementing procedures, setting expectations, and keeping the use of iPad in focus

### LESSON 4: Ten 'Must Have' Types of Apps

- Identifying useful apps that support common functions like presentations, screen casting and note taking in the classroom
- Exploring practical ways to integrate apps into lessons



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# Technology in the 21st Century Classroom



## Standards:

This course aligns to all of the INTASC Standards including Learner Development, Learning Differences, Learning Environments, Content Knowledge, Application of Content, Assessment, Planning for Instruction and Instructional Strategies.

It also aligns to all of the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

Today's educators know about many digital tools at their disposal. However, using technology in the classroom requires more than just knowing how to use the tools. Teachers need to understand the role of technology in the learning process, and principles to integrate tech in a way that it promotes learning without distracting from the curriculum.

This course teaches concepts and ideas behind using technology in the classroom. It also helps teachers to understand skills that students need to develop in order to use technology in the most effective way.



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# Technology in the 21st Century Classroom

## Course Outline

### LESSON 1: Introduction

- The mindset behind using technology
- How learning environments and education have changed with technology
- Technology standards and essential conditions required for learning to take place while using technology

### LESSON 2: Tool Set

- Classroom tools
- A code of conduct
- The need for parent education and learning to create a permission slip
- Integrating technology into the curriculum

### LESSON 3: Skill Set

- The skill set required to succeed in the 21st century, and how these skills relate to technology
- Technology that teaches students how to create, connect, communicate, collaborate, and think critically
- Digital learning farms
- Roles students can take on while using technology in the classroom, including tutorial designers, official scribes, researchers, collaboration coordinators, contributors to society, and curriculum reviewers

### LESSON 4: Mindset

- Digital literacies
- Literacy including basic literacy, information literacy, media literacy, visual literacy, global literacy and network literacy
- Ethical use of digital media
- Digital footprints



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