

Technology in Education Package #2 (25 Hours)



Teachers navigate questions and make decisions about using technology at school and in the classroom every day. This online PD course package helps teachers get familiar with educational technology and build skills for teaching in the classroom and using technology in instruction. Create online quizzes and polls, design better PowerPoint presentations, illustrate with cartoons and charts, make classroom videos, and flip lessons for students.

The Technology in Education #2 Package includes 5 self-study courses (5 hours each) for a total of 25 hours of professional development.

- Assistive Communication for Every Classroom
- Flipping Classrooms
- Mobile Technology in the Classroom
- Videos in the Classroom
- Virtual Field Trips

Assistive Communication for Every Classroom



Standards:

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

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

Students with disabilities face many communication challenges. Combined with possible physical and cognitive disabilities, learning can be compromised. As teachers, it is important to help students with disabilities overcome difficulties to attain and maximize potential in the classroom.

In this course, teachers are introduced to available assistive communication techniques and tools. Teachers gain an understanding of high-tech and low-tech assistive devices and learn how to incorporate them into a classroom. The tools, strategies, and templates provided in this course help teachers create an inclusive classroom and positive learning environment for students with disabilities.



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Assistive Communication for Every Classroom

Course Outline

LESSON 1: Introduction to Assistive Communication

- Defining Assistive Communication and exploring its benefits and function
- Identifying the laws advocating for and supporting the use of Assistive Technology
- Understanding Assistive Communication, its purpose, and the three types of Assistive Communication devices used in the classroom
- Identifying the four categories of Assistive Communication Technologies

LESSON 2: Low-Tech Strategies for Communication

- Exploring the six phases of the Picture Exchange Communication System method and its application
- Understanding American Sign Language and its use in the classroom
- Practical application of the Picture Exchange Communication board and Topic rings/wallets in the classroom
- Identifying the four main types of Communication cards effective in the classroom

LESSON 3: High-Tech Strategies for Communication

- Exploring the different high-tech strategies and their uses for improving communication and learning in the classroom
- Computer modifications and adaptations enabling students with disabilities to achieve academic excellence
- Practical application of the devices with regard to Physical, Visual, Communication and Learning disabilities
- Identifying the smartphone applications that can enable communication

LESSON 4: Implementing Assistive and Alternative Communication in Classrooms

- Understanding the role of the teacher and the Assistive Communication team with regard to Assistive and Alternative communication
- Exploring the process of implementation and classroom observations of Assistive and Alternative Communication in the classrooms
- Defining the Multi-modal approach to communication and the three Levels of communication
- Exploring the strategies aiding and facilitating communication, group work, assessment, and homework



5 Hours
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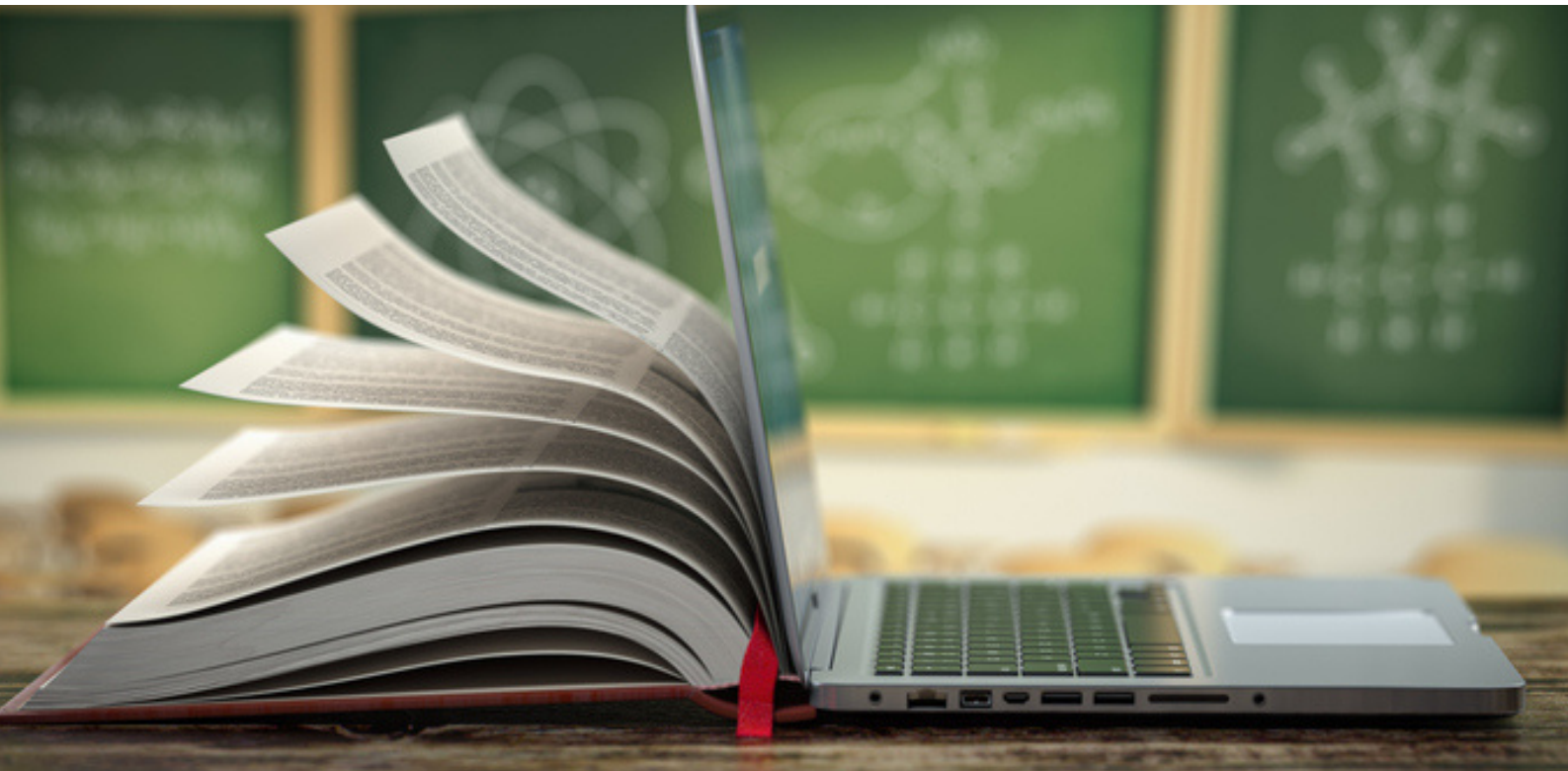
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Flipping Classrooms



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"Flipping" the classroom liberates classroom instruction from traditional patterns. The goal is to move students beyond becoming 'proficient' in a subject to 'mastering' its intricacies. Explore making students' learning needs the driving force behind classroom instruction. Identify effective tools and strategies, such as video, digital simulations, and computer games to personalize lessons.

This approach empowers student ownership over their learning and promotes the classroom as a collaborative educational environment.



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Flipping Classrooms

Course Outline

LESSON 1: Understanding the Flipped Classroom

- Flipped classroom: Definition and why “flip?”
- Key elements and benefits to flipping a classroom
- Traditional classroom vs. flipped classroom
- Types of flipped classrooms
- Research and concerns regarding flipped classrooms

LESSON 2: Creating a Flipped Classroom

- How to flip the classroom
- Creating a flipped lesson plan
- Effective lesson planning
- Integration within a flipped classroom

LESSON 3: Tools for the Flipped Classroom

- Creating video content
- The latest technology for creating videos
- Digital tools for flipping
- Tips for effective videos

LESSON 4: Ideas, Tips and Collaboration

- Accommodating all learners and peer instruction
- Collaboration between students, parents, and school
- Flipping faculty meetings
- Flipping across grade levels



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Mobile Technology in the Classroom



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

Introducing mobile technology in the classroom is not a technological initiative, but rather an educational endeavor to help students learn. Teachers can integrate smartphones, tablets, iPads, Kindles and more into everyday classroom activities while achieving learning targets. Cell phones don't need to be a distraction!

In this course, teachers learn how to create technology-based lesson plans, activities, and assessments that incorporate mobile devices. Mobile technology enables collaboration and shared learning beyond traditional methods, helping students become stronger communicators. Teachers will also learn to consider challenges and create safe practices for student security and safety.



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Mobile Technology in the Classroom

Course Outline

LESSON 1: Learning with Mobile Devices

- Looking into the essential elements of mobile learning
- Considering the technological infrastructure requirements
- Understanding the SAMR model to mobile learning

LESSON 2: Mobile Learning Implementation Policies

- Creating policies for implementation of mobile learning
- Discussion of policies related to network accessibility, security, devices, and PD
- Analysis of the types of mobile learning programs in schools

LESSON 3: Smartphones and Tablets in the Classroom

- Getting students started with mobile technology in the classroom
- Introducing mobile devices in the classroom
- Using the different apps available with practical ideas for implementation

LESSON 4: Other Mobile Technology

- Motivating students from different backgrounds and with different disadvantages to enjoy reading using e-readers
- A discussion about how to derive the maximum benefits from portable media devices
- Ensuring students get a feel of the reality of what they study by introducing the concept of virtual reality through mobile devices



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Videos in the Classroom



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Every teacher wants students to be enthusiastic about learning but sometimes it's challenging to capture interest when the topic is difficult to understand. Videos can do wonders to pique students' interest and engagement. Students retain information faster, grasp concepts more rapidly, and become more enthusiastic about learning when videos are used in the classroom. Teachers are encouraged to use videos already available online and learn to record, edit, create, embed and share videos.

This course presents guidelines and practical tips on choosing videos that align with learning objectives. With templates and examples, teachers find it easy to connect complex lessons to real-life scenarios.



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Videos in the Classroom

Course Outline

LESSON 1: Role of Videos in Education

- Research regarding role of videos in education
- Theoretical basis for introducing videos
- Impact of videos
- The elements, process, and implications of a Flipped Classroom
- Teaching approaches and how they incorporate videos

LESSON 2: Effective Use of Available Videos

- Types of videos
- Finding the appropriate video
- Video resources on the internet
- YouTube

LESSON 3: Creating Videos

- Teacher-created videos and their benefits
- Storyboarding
- Screencasting and camera recording
- Editing, uploading, and sharing videos
- Embedding videos
- Student-created videos and their benefits

LESSON 4: Considerations for Classroom Use

- Different ways of using videos in the classroom
- Considerations for video presentation
- Presenting effective video content
- Guidelines for choosing content
- Post-viewing activities for elementary, middle, and high schools
- Teacher reflection and effective feedback
- Copyright considerations



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Virtual Field Trips



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Field trips help students make connections between classroom learning and the world. However, they aren't always practical due to budget constraints, safety concerns, or learning needs.

Virtual field trips are an effective alternative to traditional field trips because of accessibility, ease, and interactivity. They are cost-effective, safe to use, and break down geographical and learning barriers. Virtual field trips work well for all types of classrooms.

In this course, teachers discover innumerable tips and resources to plan, create, and customize virtual trips and cater to their students' needs. Take classroom learning beyond the confines of the classroom.



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Virtual Field Trips

Course Outline

LESSON 1: Introduction to Virtual Field Trips

- Characteristics
- Opportunities
- Applicability

LESSON 2: Virtual Field Trip Resources

- Pre-designed virtual field trips
- Resources to design virtual field trips
- Maximizing learning

LESSON 3: Planning a Virtual Field Trip

- Considerations
- Types of virtual field trips

LESSON 4: Conducting a Virtual Field Trip

- Setting the stage and goal
- Student participation and post-virtual field trip follow-up
- Drawing connections and real-world implications
- Reporting and evaluating the virtual field trip



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