Technology in Education Package (50 Hours)

This comprehensive set of online PD courses helps teachers gain confidence incorporating technology in a face-to-face, online, and hybrid learning environment.

The Technology in Education Package includes 10 self-study courses (5 hours each) for a total of 50 hours of professional development.

- Apps for Education
- How to Teach Online for the Classroom Teacher
- Internet Safety in a Connected World
- Introduction to Technology
- iPads in the Classroom
- Mobile Technology in the Classroom
- Reading through Technology in the Classroom
- Technology in the 21st Century Classroom
- Videos in the Classroom
- Virtual Field Trips
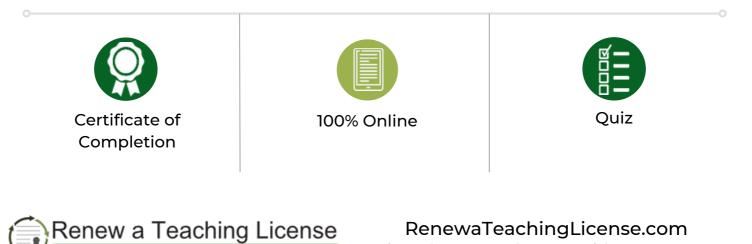
Apps for Education

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
5 Hours
of Learning

Convenient Access:
Start Right Away

Resources & Tools for
Professional Learning Plans

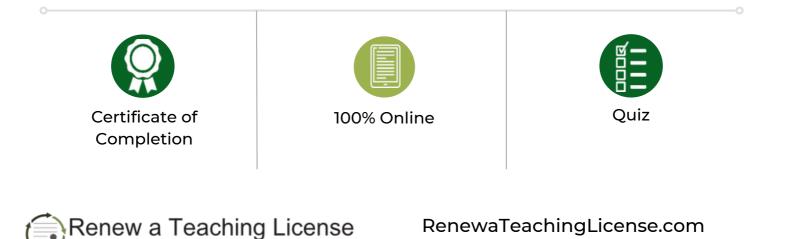# How to Teach Online for the Classroom Teacher

Standards:

This course aligns to the INTASC Standards including Learning Differences, Learning Environments, Content Knowledge, Assessment and Planning for Instruction.

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

As educators, we know that technology is a means, and now a must, to enhance student learning.

In this course, teachers go through the process of preparing to teach online while also being introduced to a wide variety of helpful tools and resources.

Teaching in an online or hybrid classroom can be an uncomfortable adjustment for teachers, especially if they've never taught online before. But with the right training, classroom teachers can quickly become effective online teachers.

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How to Teach Online for the Classroom Teacher

Course Outline

LESSON 1: Introduction

- Online learning myths
- Research
- Online teaching myths
- Asynchronous and synchronous learning
- Blended learning
- LMS

LESSON 2: Delivering Content Online

- Google Classroom
- Email
- Blogs
- Social media platforms
- Webinars
- Collaborative whiteboard
- Videos

LESSON 3: Assessment through Collaboration and Engagement

- Engaging assessments and tools
- Collaborative assessments and tools

LESSON 4: Planning and Safety Considerations

- Tools for planning
- Planning template
- Safety considerations
- Grooming and predators
- Cyberbullying
- Boundaries
- Communicating with parents
- Agreements and contracts

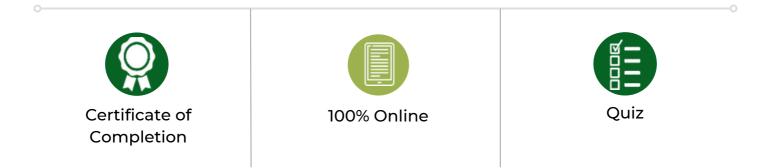|		
5		
5 Hours of Learning	Convenient Access: Start Right Away	Resources & Tools for Professional Learning Plans

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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Quiz

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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**5 Hours
of Learning**

**Convenient Access:
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**Resources & Tools for
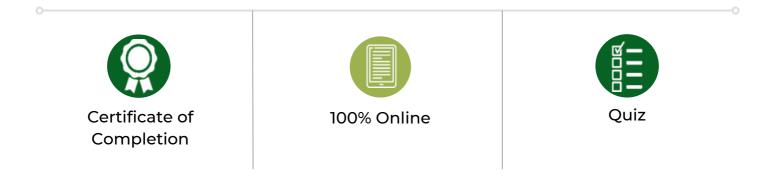Professional Learning Plans**

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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Quiz

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

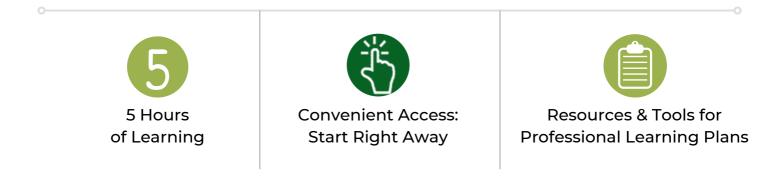**LESSON 2: iPads as A Teaching and Learning Tool**

- 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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5 Hours
of Learning

Convenient Access:
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Resources & Tools for
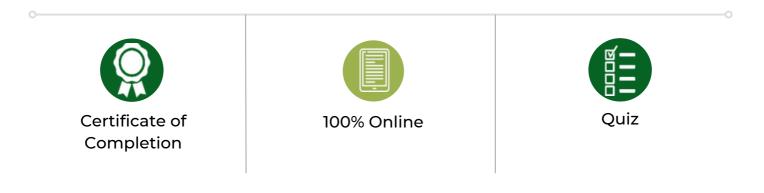Professional Learning Plans

Mobile Technology in the Classroom

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 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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Quiz

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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5 Hours of Learning

Convenient Access: Start Right Away

Resources & Tools for Professional Learning Plans
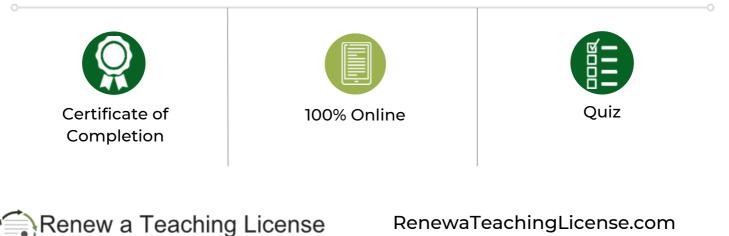
Reading through Technology in the Classroom

Standards:

This course aligns to the INTASC Standards including Learner Development, Learning Environments, Content Knowledge, 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.

Reading is an essential skill that is central to education. In today's classroom, students use and access information from a variety of sources, not just books. The skills of evaluating content, collaboration and peer-review become an important part of reading.

Full of activities, strategies, and templates, this course introduces creative strategies for reading instruction that incorporate technology. Teachers discover devices and techniques which can be used to enhance reading in the classroom.

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Reading through Technology in the Classroom

Course Outline

LESSON 1: Introduction

- Introducing technology in the classroom
- Technology tools
- Interactive whiteboards and clickers
- Mobile devices and computers
- Bring your own device (BYOD)
- Important terms: backups and ergonomics

LESSON 2: Digital Reading Technologies

- Reading on an e-book
- E-book reader explained
- E-book reader technologies
- Tablet based e-book readers
- App based e-book readers
- Finding e-books
- Reading on the Internet
- Using digital libraries
- Virtual book clubs

LESSON 3: Technology Supported Reading

- Pre-reading strategies
- During reading strategies
- After reading strategies

LESSON 4: Collaborative Reading Through Technology

- Collaborative reading using technology
- Tools for collaborative reading
- Collaborative reading strategies
- Collaborative activities

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5 Hours
of Learning

Convenient Access:
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Resources & Tools for
Professional Learning Plans
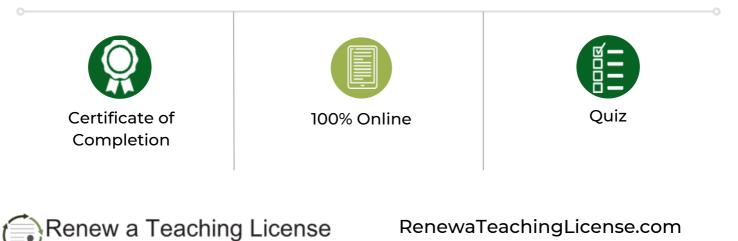
Technology in the 21st Century Classroom

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
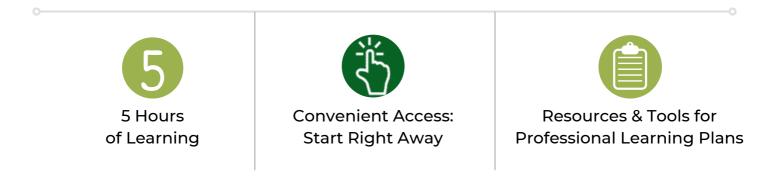
LESSON 2: Tool Set

- 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
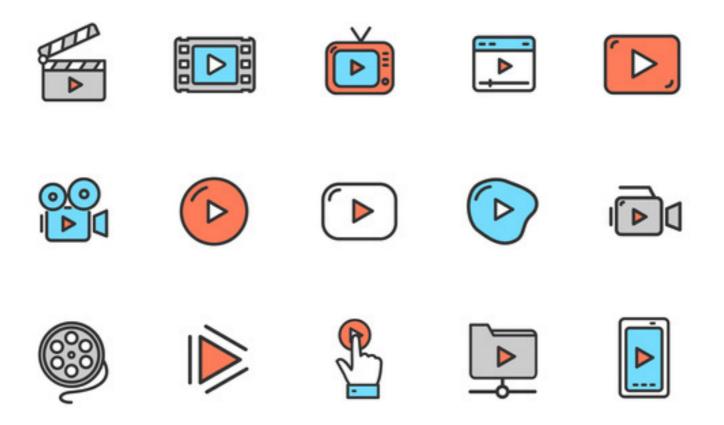
LESSON 4: Mindset

- 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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5 Hours
of Learning

Convenient Access:
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Resources & Tools for
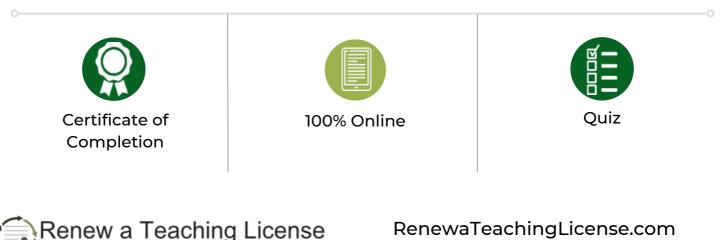Professional Learning Plans

Videos in the Classroom

Standards:

This course aligns to the INTASC Standards including Learner Development, 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.

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.

Certificate of Completion

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Quiz

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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**5 Hours
of Learning**

**Convenient Access:
Start Right Away**

**Resources & Tools for
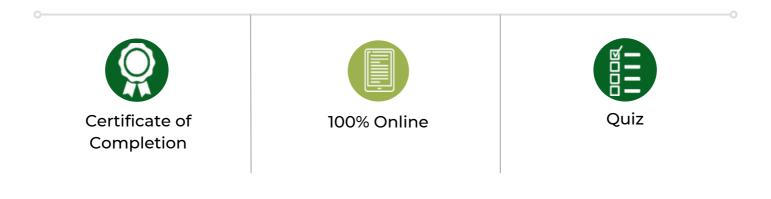Professional Learning Plans**

Virtual Field Trips

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

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, teacher 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.

Certificate of Completion

100% Online

Quiz

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

5 Hours of Learning

Convenient Access: Start Right Away

Resources & Tools for Professional Learning Plans