

Mobile Learning Action Plan

Intel® Teach Elements: Moving into Mobile Learning



Moving into Mobile Learning Action Plan

Action Plan: *Nora Bowen*

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Module 1: Introduction to Mobile Learning

Lesson 1: Mobile Learning and Personalization

Activity 3: Mobile Devices in Education

Estimated Time: 10 minutes

Considering your current situation, what are your goals for implementing mobile learning strategies with your students? Record your ideas below.

The administrators at my school are supporting my effort to pilot a BYOD program in 2 of my biology classes. My goal is to get my students more actively engaged and get them more excited about the content we are learning. I really want to show my students how their mobile devices can be used for much more than checking email and social networking. I'd like to work on giving my students more independence and teaching them to be self-managers. I'd also like to find new ways that I can use apps to improve my teaching and my assessment methods.

Module 1: Introduction to Mobile Learning

Lesson 2: Why Mobile Learning Matters

Activity 2: Personalization of Learning

Estimated Time: 10 minutes

Which of the following trends have you seen in your environment?

Describe some examples of the following trends that you have seen in your school environment.

Trends	Examples
Technology is part of nearly every aspect of modern life.	<i>Just walking down the hallway, you can see that almost every student is connected to a cell phone! They're using them to connect with each other, but also to communicate with their parents and find out what's going on in the world around them. Even cars are equipped with advanced technology devices, like GPS and voice activation. I rely on technology in almost every area of my daily life, from cooking apps to my online calendar!</i>
Education is shifting to more online and blended-learning models.	<i>Our school is starting to consider the possibilities of offering advanced courses and make-up courses online. This is a trend that I'm seeing more and more. I've noticed that in our professional development meetings, many teachers are sharing apps and online resources that they've found. It seems to me that teachers are starting to see the benefits of blended learning models.</i>
Educational institutions and organizations are supporting active-learning instructional	<i>Recently we've had a lot of professional development on this topic. Administrators in our school are encouraging teachers to take on the role of a learning facilitator, while students actively create their own knowledge. At first I</i>

approaches.	<i>was worried that my class was being too loud, or that it looked like I didn't have control. But when I saw how well my students were meeting the goals of the lesson, and still remembering the information 2 weeks later, I knew that I was doing something right!</i>
Learners of all ages expect to personalize their own learning programs and experiences.	<i>As an adult learner, I definitely use technology to learn more about things that I am interested in. Just last night, I watched an online video to learn how to roast a perfect turkey! I've noticed that my students go online to learn just about anything on-demand.</i>

How do you anticipate that these trends will affect your teaching and your students' learning in the future?

I anticipate that our access to personalized information on-demand will have a big impact on teaching and learning. Already, I can see that my students expect to be able to find information immediately and use this information to solve problems quickly and easily throughout the day. Technology is such a natural part of their everyday lives, and they expect their classroom learning to match this way of thinking.

Module 1: Introduction to Mobile Learning

Lesson 3: Mobile Learning Initiatives

Activity 2: Getting Started with Mobile Learning

Estimated Time: 10 minutes

Create a vision statement that will help you communicate with stakeholders and guide your implementation of mobile learning.

Vision Statement

Learning Anytime, Anywhere

Our BYOD program will allow us to design instruction that meets the unique learning needs of each student by providing learning anywhere, anytime; enhancing equity of access through the use of personal devices and internet resources; using social media to support inquiry and communication while building social responsibility and digital literacy; and strengthening connections with parents.

Module 1: Introduction to Mobile Learning

Lesson 4: Implementation of Mobile Learning

Activity 2: Models of Mobile Learning

Estimated Time: 10 minutes

What steps will you take to begin the process of implementing mobile learning?

Step 1	<i>First, I need to get buy-in and support from both the parents and students. I plan on having an information night where parents can learn more about BYOD and ask questions they may be wondering.</i>
Step 2	<i>Before I can start using the devices in my classroom, I need to set up clear expectations, policies, and procedures. I plan on making my students a part of the planning process.</i>
Step 3	<i>I will start small, by only incorporating mobile devices into a few of my lessons that I already teach. Then I can evaluate how things are going, and make adjustments without getting overwhelmed.</i>

What challenges do you anticipate and how will you meet them?

Challenge	Solution Strategy
<i>Students will forget to bring their devices to school, or their device will not be working correctly.</i>	<i>I may check out a few mobile devices or laptops from the school's supply, just to have a back-up plan. When possible, I could plan alternative activities for students who forget their devices.</i>
<i>The devices might become a distraction for students when I am providing important instruction.</i>	<i>I will need to establish very clear rules and procedures for when and how devices can be used, with consequences for misuse.</i>
<i>Some parents may not support their children using cell phones and tablets at school. They might wonder if it's just a distraction, especially if their child isn't getting good grades.</i>	<i>I will need to make the benefits of our BYOD program visible. I will maintain frequent communication with parents about what we are learning, and how the devices are enhancing this learning.</i>

Module 1: Introduction to Mobile Learning

Lesson 5: Module Review

Activity 1: Module Summary

Estimated Time: 5 minutes

Reflect on your learning in this module.

Since I'm new to mobile learning, it was really helpful to learn more about the basics of mobile learning and how it has developed over the past few years. I enjoyed reading about some of the challenges of mobile learning because it made me think about potential issues that may come up, and it helped me make a plan for solutions to these challenges. I also enjoyed learning about the types of instructional design that support mobile learning. I know that it's not just about adding mobile devices to your lessons, but you also have to shift your instructional design to make everything work together.

Module 2: Mobile Learning Implementation

Lesson 1: Paths to Mobile Learning

Activity 4: Mobile Learning in Practice

Estimated Time: 15 minutes

Consider how ready you, your school, and your students are for mobile learning. What are the opportunities and challenges?

Opportunities	Challenges
<i>The administrators are supporting a pilot BYOD program.</i>	<i>The idea of BYOD is new to most teachers, so there is still a lot of skepticism. There's a lot of pressure to gain support for the program.</i>
<i>The parents and students in my biology classes are excited about the new program.</i>	<i>There are some parents in the school who are frustrated that their children are not receiving the same opportunities.</i>

What skills will you need to develop in order to move forward?

I need to become more familiar with some of the different types of mobile devices, so I can better help my students troubleshoot any problems they may encounter.

Module 2: Mobile Learning Implementation

Lesson 2: Learning in a Personalized, Mobile Environment

Activity 2: Assessment and Mobile Learning

Estimated Time: 15 minutes

Consider how you would like to add mobile learning to your curriculum. What ideas do you have for a unit to develop or modify?

I would like to incorporate mobile devices into my unit on cell anatomy of animals and plants. This is a unit that my students have had a hard time understanding in the past. I think that incorporating apps and mobile device tools will better engage my students and lead towards better learning retention.

Module 2: Mobile Learning Implementation

Lesson 3: Basic Apps and Tools for Personalization

Activity 2: Basic Apps for Mobile Learning

Estimated Time: 15 minutes

Describe your unit from a student's perspective.

I will learn more about plant and animal cells using information from a variety of sources, including apps, Web sites, classroom instruction, and hands-on experiments in class. At home, I will watch online videos and answer questions on the classroom blog to prepare for the next day's discussion in class. I will choose a multimedia presentation tool that best demonstrates what I have learned through photos, models, and drawings.

What activities, processes, or routines will be mobile?

Students will use their smartphones and tablets to access a mobile app that offers 3D views inside animal, plant, and bacteria cells. They will be able to tap on part of the cell to select and zoom for more information.

I will also ask students to respond to a series of questions on the classroom blog, from home, in preparation for the next day's discussion.

For the final presentation, I will let my students choose a technology tool that interests them most. They will use their mobile devices to include pictures, models, or drawings of cells and describe the function of their parts.

What apps and devices will be used?

Apps	Devices
Cell anatomy app	Smartphones
Multimedia presentation apps	Tablets
Note-taking apps	Laptops
Skill-building apps	
Calendar and project planner app	

What assessment will be conducted and by whom?

Assessments	Assessor
Polling app and online quiz	Teacher
Classroom blog discussion	Teacher
Project rubric	Student self-assessment, peer assessment, teacher
Self-direction checklist	Student self-assessment

Module 2: Mobile Learning Implementation

Lesson 4: Module Review

Activity 1: Module Summary

Estimated Time: 5 minutes

Reflect on your learning in this module.

This module really helped me to start planning details about how mobile learning will be implemented into my lessons on cell anatomy. It was helpful to learn more about basic apps and tools that can enhance student learning. This gave me a good starting point for planning my lessons. I also learned a lot from reading about different mobile learning environments and strategies for success. I have a lot to think about!

Module 3: Management of the Mobile Learning Environment

Lesson 1: School and Classroom Policies

Activity 2: Online Safety and Security

Estimated Time: 10 minutes

How does your school's AUP (or RUP) address issues related to a mobile environment?

Our school's AUP is fairly standard. Currently, students are not allowed to use their own personal mobile devices in class. I will need to create my own AUP that addresses issues specific to BYOD programs.

What steps could you take to deal with any issues that might arise with school policy? What safety and security issues do you anticipate with the use of mobile devices and how will you address them?

Issues	Steps
<i>Some parents and administrators have already expressed concerns about personal mobile devices being stolen while they are at school. They are asking questions about whether or not the school should be held responsible for replacing the devices.</i>	<i>I will work with other teachers and school personnel to come up with secure solutions in high-theft areas, such as gym class or lunch period. Also, I will work closely with the parents and students to come up with a list of guidelines, such as recording the serial number of the device and installing a password. I will make sure parents understand that the school will not be responsible for replacing stolen devices. I've also been reading about anti-theft software, I will find out more about that.</i>
<i>Our district's current technology devices use a highly secure and restrictive network. I'm anticipating that this will cause some connectivity issues when students try to access the school network on their personal devices.</i>	<i>Before fully implementing mobile devices in my lesson, I plan to invite our IT team into the classroom to help students get their devices connected to the network. I know this will be a learning process with several bumps along the way, but I also think the payoff will be worth it.</i>

Module 3: Management of the Mobile Learning Environment

Lesson 2: Classroom Management in the Mobile Learning Environment

Activity 1: Challenges and Solutions for Managing Mobile Learning

Estimated Time: 10 minutes

What issues do you anticipate in managing your classroom with mobile devices? What strategies will you use to manage your mobile learning environment?

Issues	Strategies to Address
<i>Sometimes students leave their mobile devices at home or bring them to school uncharged.</i>	<i>Have alternate assignments available for students without mobile devices. Keep a record of this behavior and set up consequences for coming to class unprepared (without a functioning device).</i>
<i>Students visit non-academic Web sites while they are supposed to be working independently on group projects.</i>	<i>Make sure I'm wandering around the room and noticing when students are detached from their groups. Have students write goals for each day and make a quick trip around the room at the beginning and end of each class period to check on their progress.</i>

Module 3: Management of the Mobile Learning Environment

Lesson 3: Module Review

Activity 1: Module Summary

Estimated Time: 5 minutes

Reflect on your learning in this module.

This module really made me stop and think carefully about how BYOD will be managed in my classroom. I learned a lot about the day-to-day considerations for managing and implementing devices.

Course Wrap-Up

Summary

Estimated Time: 15 minutes

How will you use the ideas presented in the course?

This course made me consider more than just how to incorporate mobile devices into a lesson. It made me think about the underlying strategies, like self-direction, that need to be addressed in order to make a mobile learning program more successful. I'm excited about engaging my students more through projects and personalized learning. I'm interested in digging a little deeper in the next course, to learn more about how mobile learning relates to creativity and personalized learning.