Final Lesson Plan
Podcast for Assessment Mini-Grant

Subject: **Math, technology, research, communication**	**Lesson Title and Unit (if applicable):** **Math in the Classroom, Home and Community**	**Grade Level:** **Fifth**

Lesson Description: Students will create podcasts on a daily, weekly, and monthly basis with direct correlation to ISTE and Ohio Academic Math Standards.
Daily: Math in the Classroom podcasts will create opportunity for communication to other students, parents, administration concerning explanation of the lesson for the day.
Weekly: Math from Home podcasts will be created with family members to discover ways that grade level Math skills are used in the home. (Family question of the week)
Monthly: Math in the Community and Around the World podcasts will be based on research about occupations that use specific math skills taught in the classroom.

Context: Podcasts will be completed within the Math class setting as well as at home in order to complete the "Math at Home" component.	**Overall Goal:** Students will increase the daily use of educational podcasts within the Math classroom to support standards based instruction.

Standards (include ISTE, Common Core and Ohio Academic):
All Fifth Grade Ohio Math Academic Content Standards
ISTE/NETS:

- Students will apply digital tools to gather, evaluate, and use information. They will locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
- Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.
- They will interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.
- They will contribute to project teams to produce original works or solve problems.
- Students will plan strategies to guide inquiry.
- Students will use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using digital tools and resources.

- Students will identify and define authentic problems and plan, manage activities to develop a solution or complete a project.
- Students will understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.
- Students will exhibit leadership for digital citizenship.
- Students will transfer current knowledge to learning of new technologies.

Ohio Academic Content Standards: Communication

- Identify the speaker's purpose in presentations and visual media
- Demonstrate an understanding of the rules of the English language and select language appropriate to purpose and audience.
- Use clear diction, pitch, tempo, and tone, adjust volume and tempo to stress important ideas.

Learning Objectives:	**Tools and Resources:**
1. Students will take a pretest and listen to a sample podcast. 2. Students will participate in the following mini-lessons: ➢ tools for podcasting ➢ digital citizenship ➢ planning (daily, weekly, monthly) ➢ building a podcast (practice) ➢ editing, adding music ➢ publishing, advertise ➢ posttest 3. Students will create a podcast using Garageband and the iMac 4. Students will create videos using iPods. 5. Students will edit, publish(download and post) podcast/vodcasts 6. Students will work cooperatively with group members to create and publish podcasts. 7. Students will communicate effectively the Math lesson for the day, the work from home, and the research from the community. 8. Students will create podcasts that demonstrate their understanding of the curriculum (Common Core, ISTE, Ohio Academic Content Standards, and Ohio Academic Technology Standards).	**iPods, Mac, script templates (Appendix A), iTunes, pre/post assessments** **teacher rubric** **self-assessment rubric** **Computer lab – 1 to 1 ratio of computers** **SMARTboard** **Headphones** **Microphone** **Podcasting file** **Schedules** **Feedback concerning effectiveness of the podcasts** **Family questions come from the envision Math series, as well as a variety of resources.** **Script template for Classroom, Home , and Community**

Activity and Instructional Strategies:

Day One(whole classroom)

1. Preassessment of podcasting ideas required by all students
2. View and listen to a sample podcast.
3. Discuss how they think a podcast is created and designed.
4. Students will be placed in groups of 3-4 students to work together for the year.
5. Students will then be shown a SMARTboard presentation of the following:
   - tools for podcasting – software, hardware
   - digital citizenship
   - planning (templates)

Day Two (in small group)

1. Set up a podcast Practice and record)
2. Edit, add background music
3. Publish and post on website
4. File the podcast

Day Three (in small groups)

1. Discuss Math in Classroom podcast components
   - Daily
   - Template used
   - References the learning targets
   - Provides steps to complete math skill
   - Provides a personal creative touch
   - Provides alternate methods
   - Suggests helpful websites
   - Explains any activity done in the classroom to enhance the daily lesson
2. Discuss Math From Home podcast components
   - Weekly rotation
   - Assigned on Monday, due to be presented on Friday
   - Individual with family
   - Use script and family question
   - Collaborate with family member(s)
   - Provides any explanation needed to solve the problem
3. Discuss Math in the Community and Around the World
   - Monthly rotation
   - Group collaboration
   - Template used: Describe the occupation and the math skill needed for the specific job.
   - Could be a parent, company, persons from the local community, another country, or location.
   - Interview format

A feedback form will be sent home for parents to evaluate podcasting and its effectiveness.

A rubric will be completed each quarter for the daily podcasting sessions. A file will contain all podcasts for the year. Students will self-assess after assigned podcast for the classroom.
Differentiation: **As per IEP: student work will be adjusted.** **Advanced level: ability to add video, jokes, additional resources to their podcast, interview from another country, etc….**
Assessment: **Self using rubric** **Parents feedback form** **Teacher rubric**

Documentation (Please provide any additional documentation that you created for the lesson. For example, handouts, rubrics, etc.)

Self-Assessment Rubric for Math in the Classroom

Name _____
Group Members _____

Circle the answer you feel best describes your effort.

I worked cooperatively with my group members	**yes**	**no**
I understand how a podcast is designed and published	**yes**	**no**
I can describe how to create a podcast to another person	**yes**	**no**
I think my voice was loud enough	**yes**	**no**
I think I could add something new to my next podcast	**yes**	**no**

Teacher Rubric for Math in the Classroom

Name _____
Group Members _____

Podcast/Technology	Points Possible	Points Earned
Completed the Script Sheet	5	
Tone	5	
Collaboration and Cooperation	10	
Learning Target stated	5	
Accuracy and Understandability of the Explanation of Math Steps	10	
Proper Use of Equipment	10	
Creativity	5	
Total Points Possible	**50**	

Script Template for Daily Podcast

Hello Everyone,

Welcome to Mrs. Seevers podcasting. This is _____, _____, and _____.

Today's date is _____
Our Math lesson today was about _____.
Our Math Learning Target or I can statement was
_____
_____

If you forgot the homework or you were absent then here is how you do today's Math lesson:

Here are some tips to remember

If you need additional help, go to (website address) or page number _____ of the textbook.

One last thing, our homework was:

See you tomorrow

Script Template For Math from Home

Hello Everyone,

This is (name of student and family members participating)

Our Problem Solving question reads like this: (read assigned question)

Some things we had to think about or remember were(write your own answer here)

So here is how we solved the problem(write your own explanation here)

.Thank you for listening to our family podcast.

Script Template for Math in Our Community/World

Hello Everyone,

This is _____ and I am here with _____ who works at _____,

Write your own interview questions below to inquire how they use Math in the workplace. Don't forget to ask them to provide specific examples about using Math in the workplace.

Thank the interviewee and thank everyone for listening.