



Project Introduction

We are Pre-service Teachers taking the college course Survey of Math Structures II. We are conducting an EMPACTS project in which we are asked to take what we are taught and teach it to a classroom of students using technology. The project includes developing a lesson plan based on Arkansas standards, teamwork, time management, classroom management, using tech and reporting our experience.



Focus Standards:

- 1.NBT.C.4- Add within 100 using concrete models or drawings, relate the strategy used to a written expression or equation, and be able to explain the reasoning.
- 1.NBT.C.5- Mentally find ten more or ten less than a given two-digit number, without having to count.

Supporting Standards:

 1.OA.C.6- Add and subtract within 20, demonstrating computational fluency for addition and subtraction within 10.

Lesson Objectives

- Knowing how to add and subtract numbers within 10.
- Working through value progression by tens, fives, and twos.
- Understanding how to count within the 100's chart.



We had three activity worksheets planned for our lesson time, where each of us had to present the activity to the class and teach the content.

Worksheet names:

- "Ways To Make Ten" Individual student work.
- 2. "Skip Count Path" Small group work with 3-4 student table groups.
- 3. "Fishin' For Digits" Group work as a class.



Instructional Images of "Ways to Make ten"



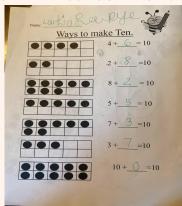


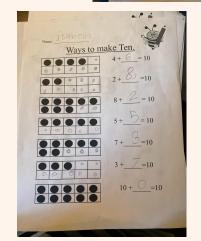
Project Results for "Ways to Make Ten"



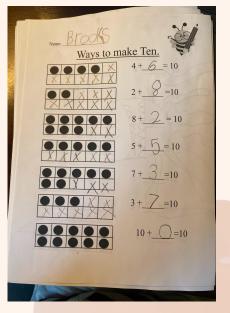












Instructional Images of "Skip Count Path"

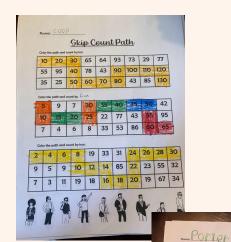




"Project Results for "Skip Count Path"







 Gkip Count Path

 Color the path and award layers

 10
 20
 30
 65
 64
 93
 73
 29
 77

 55
 95
 40
 78
 43
 99
 100
 110
 120

 \$
 9
 7
 30
 35
 40
 45
 50
 42

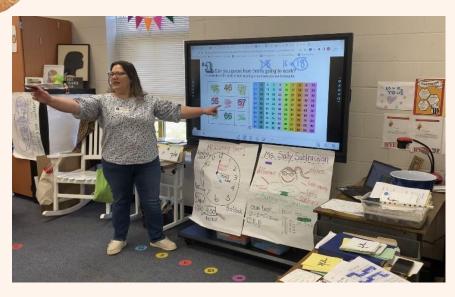
 10
 15
 20
 25
 22
 77
 43
 55
 95

 7
 4
 6
 8
 33
 53
 86
 60
 65





Instructional Images of "Fishin' for Digits"





Project Results for "Fishin' for Digits"













Spring 2023 EMPACTS Project Math Structures II, Dr. Marjorie Whitmore Northwest Arkansas Community College Bentonville, AR 7271

Extra Links:

Here is a link to our class lesson video footage:

 https://drive.google.com/file/d/1vzqXfef9H-LQHJFnHi1I SBEezF9Y-pqA/view?usp=share_link

This is our class lesson powerpoint:

 https://docs.google.com/presentation/d/1EqFjvXbxC7NhP0kWfluocPrfc0DStyZ6uMHaCnPtal/edit?usp=sharing

What did you learn from your teaching experience?

We all had a great time being in the classroom. The children were very excited to have new teachers in class for the morning. They were all awesome students to work with! They listened to our instructions, sat while we taught, and were excited for what was next. Our activities could have been a little more challenging for our students. Although our mentor teacher, Alicia Mooreland, let us know that our activities were an awesome way to see where her students were at understanding base ten progression.



This project fulfills the requirements for the course of study and the EMPACTS program.

Learning Outcome for the course per the syllabus: "Prepare and present core mathematics lessons using some form of technology that can be incorporated into the EMPACTS program and/or submit an independent research project that incorporates technology."



Products of Learning Experience

Teaching skills:

- Classroom management-Clear instruction of each worksheet and clear expectations, tables were cleared of any distractions, materials needed were provided or accessible. Raised hands were addressed.
- Time management- We used the back of the worksheets to create artwork using a number as a base. This allowed students more time to work while those already finished kept busy. We kept an eye on our time making sure we had time for all three assignments.
- We assessed the students' learning by walking around the classroom while they worked on their worksheets. For the third assignment we had the students come to the smartboard one at a time to demonstrate their knowledge as a review.

to demonstrate Spring 2023 EMPACTS Project Math Structures II, Dr. Marjorie Whitmore Northwest Arkansas Community College

Bentonville, AR 72712

Empacts skills:

- Teamwork- As a team of four, we each brought our skills into play for this project.
 Making sure we each played our part in producing a finished project.
- Problem solving- When a problem arose another member of the team would step up. It was amazing working with team members that showed up for each other.
- Time management- Time management was our biggest struggle. Trying to find time that four busy individuals had available was quite hard! We overcame this dilemma with the use of technology and delegating out meetings and using google Drive so we could all work on the Final Presentation
- **Communication** Our main source of communication was our telephones and minutes before or after our classroom time.
- Use of technology- Google drive was a huge help in the presentation and sharing documents. In the classroom we used the smartboard to display the worksheets for easy review and demonstrations.



Products of Learning Experience



Lesson plan:

https://docs.google.com/document/d/1WSkApEE0N5zf8_ot3xPZI-ZI8qCWF1Tm/edit?usp=sharing&ouid=104917532004165862236&rtpof=true&sd=true

Worksheet 1:

https://docs.google.com/document/d/lxVa_YrcyDQWsezVbwFgS15CGA9_77iEP/edit?usp=sharing&ouid=104917532004165862236&rtpof=true&sd=true

Worksheet 2:

https://docs.google.com/document/d/llpvClo3HLouilvnuKInFOCPkdQTMUMgf/edit?usp=sharing&ouid=104917532004165862236&rtpof=true&sd=true

Worksheet 3:

https://docs.google.com/document/d/1Y60kkwp1gizuWJcYsFl8QoGY09kNrj68/edit?usp=sharing&ouid=104917532004165862236&rtpof=true&sd=true

Share Your Experiences

Going into the classroom and teaching was an eye opening experience. I realized that although I get nervous when starting a lesson, once I get into the rhythm of the lesson it gets a lot easier. I also picked up some of the tricks our teacher used on her students (waterfall call, hand signals, etc.). It was a great experience all around.

-Faith Bright

I really enjoy going into the classroom! Doing this project as a team helped me gain ideas from other members on how make activities more fun. Also gaining knowledge from teacher who worked in the building was really great.

-Haleigh Dennis

I actually really enjoyed this project. It was fun getting in the classroom and being able to learn in a hands-on way. I also think our group brought individual elements to this project that helped us succeed!

-Ellie Summers

This was a great experience in teamwork! Learning skills in teamwork will help me be a better teacher because it allows more opportunities for classroom enrichment.

-Melissa Winn



- **Lilly Dickard,** who is an instructional facilitator at Bernice Young Elementary, was an amazing help on this project. She approved all of our worksheets and helped plan the lesson. Thank you Lilly!
- Alicia Mooreland, who was our first grade mentor teacher, was an awesome supporter of us! She allowed us into her classroom and let us in on her future lessons so we could work around her. Thank you Alicia!
- Dianne Phillips, who was our mentor teacher for this EMPACTS project. She guided us on materials and resources to help better our project. Thank you Dianne!

