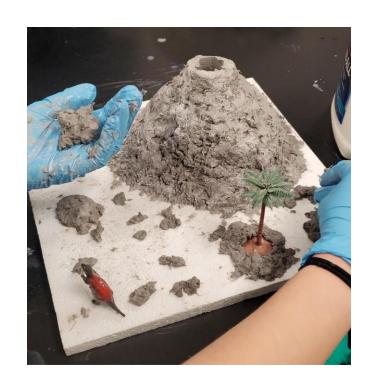
Volcanoes

Physical Science, Fall 2021 EMPACTS Project



Northwest Arkansas Community College Bentonville, AR 72712 C.D. Phillips, Instructor

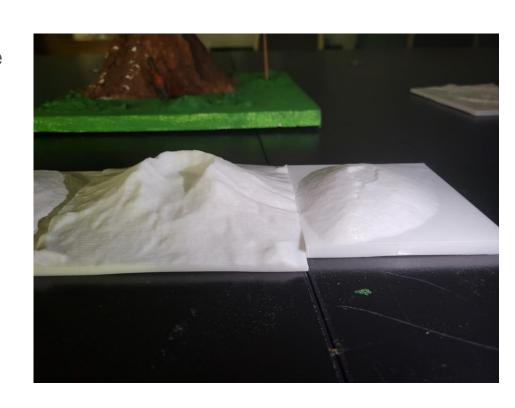
Project Introduction

The Final Project for this class had to be selected from a list of earth science topics.

We chose volcanoes and decided to produce instructional tools for K-8 and also adult learners.

Our EMPACTS Team incorporated 3D printed models of volcanoes for visually impaired learners.

We also designed and built our own erupting demonstration for our class.



Our Class



Sarahi Gomez, Danny Munoz, Misti Krueger, Shelby Wright, Lindsey Gaddy, Genesis Hernandez, and Brittney Khounborine

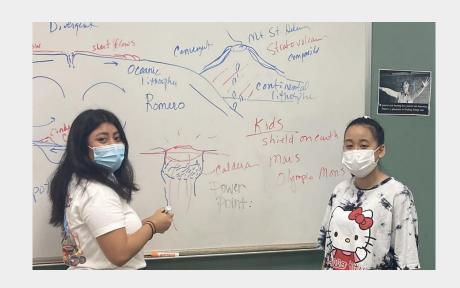
Our Volcano Design Team

Misti Krueger Shelby Wright Sarahi Gomez Danny Munoz



College Peer Presentation Team

Genesis Hernandez and Brittney Khounborine



K-8 Curriculum

Lindsey Gaddy



Curriculum

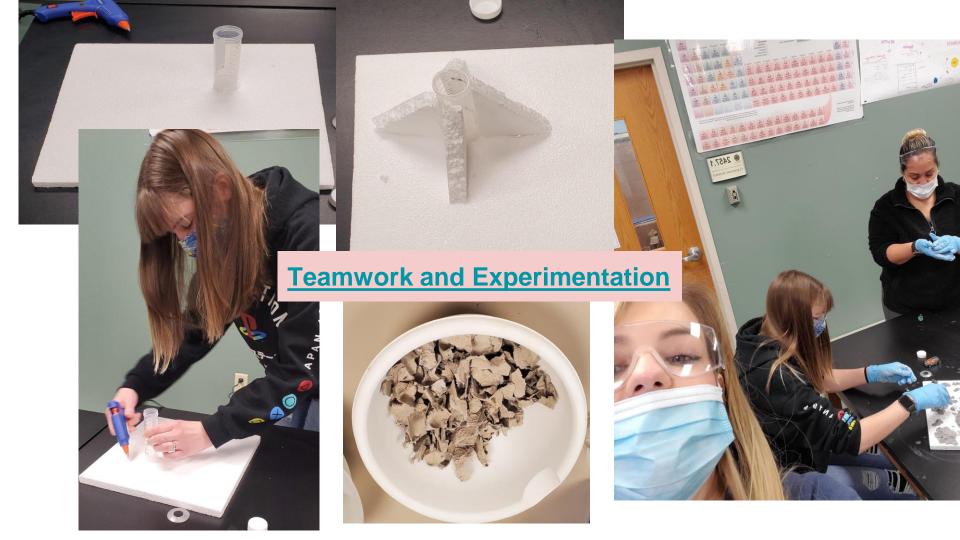
College Level Presentation

- Volcanoes
- Plate Tectonics
- Magma vs lava
- Model of the earth layers



K-8 Content Presentation

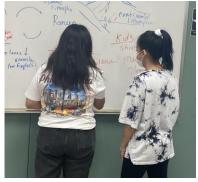




Products of our learning experience

- EMPACTS Skills
- Information Literacy
- Earth Science College Curriculum -Volcanoes
- Final Project
 - College Level Peer Presentation
 - K-8 Level Presentation
 - 3D Printed Manipulatives
 - Experimental Design
 - Finished Model
 - Webpage





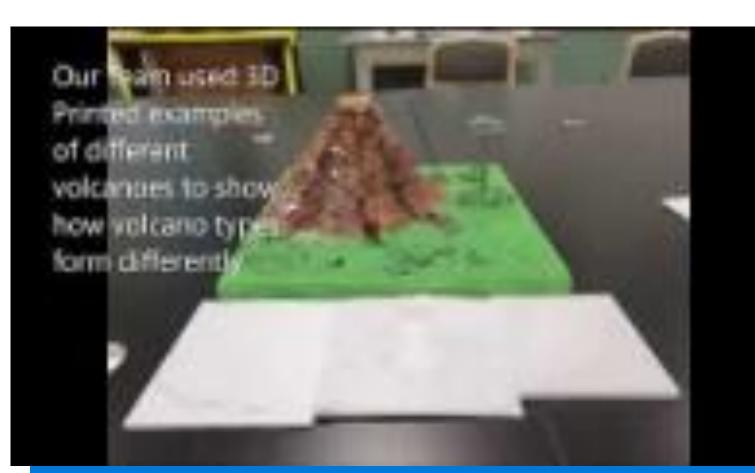




EMPACTS Skills Developed

- Teamwork
- Communication
- Community Service
- Critical Thinking Experimental design
- Technology





Thank YOU!

EMPACTS Laboratory Staff: 3D Printing advice and printing

- Dawson Robinson
- River Robinson

Professor Phillips:

- Mentoring
- Materials
- Funds for paints



Citations are on the individual components of this project.