

Earthwork Presentation/Shop Exercise/Volume Homework Handout

This exercise took approximately 2 hours 20 minutes but with transition times between the classroom and shop along with a quick bio-break, total time resulted in 2 hours 45 minutes.

Once the presentation material is completed, set up a trial run at the school with the teachers to make sure timing and technical issues are worked out prior to the final run with students. Make sure the facility is setup for easy presentation. Coordinate any supplies necessary to complete the exercise.

Please make sure the presenters and assistants are familiar with the exercise and can answer questions as they arise.

Tip! Candy give aways are always a good thing to have when keeping the attention of students.

The following resources will help to give you a better understanding of the lesson that was presented along with developing a lesson in your field of expertise.

PowerPoint Presentation w/Presenter's notes: PDF Document 8.1a - Earthwork, volume, characteristics of earth, shrink & swell, and employment opportunities.

Volume Activity Packet & Answer Key: PDF Document 8.1b - Instructions and Activity Handout to explain the shop exercise.

Shop Exercise – Supply List w/pictures: PDF Document 8.1c – Pictures and list of supplies needed for exercise.

Volume Computation Math Packet & Answer Key: PDF Document 8.1d – Volume computation problem based on a real scenario for an “Earthwork” gravel excavation.