

Delivering MOEMS® OnLine to Your Team

Keeping in mind that we are entering one of the craziest times -educationally- in the history of MOEMS as well as our world, we have already responded to as many of the questions posed by PICOs as possible. The bottom line is that if you have a better way of administering our contests online, feel free to use it. *All we ask is that the integrity of our contests is respected, and all rules are adhered to.* That means, at the very least, all students at the same place and at the same time, those students proctored by you for the full time, the contest administered within the dates listed on our website, and the scores reported back to us in a timely fashion (also set forth on our website). If you have any questions about your method of delivery, after reading through this document please call or email us.

If you just want to get right down to trying this out without reading any further, here are the two items you need:

1. *New Set of Directions (which I call a "Flow Chart" ... I know it's not really a flow chart, but...*

[Flowchart MOEMS OnLine Using Zoom](#)

2. *The link for the trial contest:*

[Practice MOEMS Contest for Divisions E&M](#)

For security purposes, we need to insist that you do not set up your contests with the auto correct feature (Quiz). We have discovered that once those answers are attached to our forms, there are enough ways that some of our highly-skilled-computer-literate mathletes would be able to access them. By your checking their answers "manually," you will also be able to allow credit for equivalent answers, where they exist.

If Zoom is the way you do business, you need read no further; however, I want to share with you some of the ideas proposed (and in most cases, tried-and-true) by users of other platforms for classroom testing. If you are a lucky PICO with face-to-face classes, feel free to use the OnPaper Contests. All PICOs will receive both formats of every contest, since it would be impossible for us to monitor the various models of education taking place for this 2020 – 2021 year.

Still using Zoom, but with a twist from PICO Arkady

- **Be sure to turn off the private chat feature in your zoom room, so that kids will be unable to commiserate; i.e., share their answers, without your knowledge.**
- All students on a team login to a Zoom session with several of our proctors.
- After the instructions are given, one of the proctors shares the screen with the contest paper (I assume we will still be able to download the paper from the MOEMS portal, as we have done in the past for in-person contests). If the group is large, we split them into several breakout rooms, so each proctor has easier time watching the kids on cameras. After the standard process of reading the problems, we start the timer.
- When students finish their work, they login to our Student Portal and enter their answers. Our Student Portal is a web application, which we use for many purposes, including entering homework answers. Below is the screen print for a mockup I created based on one of the old MOEMS tests. The answer boxes control the format and the '?' icon provides an explanation of the answer format (I can choose to show units or not to show units and I can customize the word for 'Answer' on the left side). I have the ability to setup the time limit for when the Submit button is no longer available, which I would set to 30 minutes from the start of the test. The important feature of our Student Portal is that I can enter correct answers into the database and so the Portal will grade the answers (though students will not see their results – it will just tell them the status is 'Submitted').
- I get a simple report from our Student Portal telling me which problems each student answered correctly/incorrectly. I will then enter the results into your portal, as we normally do.

Using Google Slides from PICO Jeremy

The tests can be created in google slides and use the Pear Deck add on. Pear Deck is an add on that makes google slides interactive. Students can type their answers on the screen. As long as the teacher/PICO puts the Pear Deck presentation in student paced mode, the student can move at their own pace.

It is a way to allow the students to see anything that would be on paper, on screen and allow them to do any work on screen as well (if necessary). It might be another way to simulate paper testing via the computer.

More on Google Slides from PICO David

First you put together a Google slide presentation with the information that you want to present for the competition. Then you download the free Pear Deck Add on by clicking on "Add-Ons/Get Add Ons" from the Google Presentation bar and connect Pear Deck to your Google Presentation. For each slide you can then add a "button" that gives the student a means of replying to your question.

When your students join you on Zoom and you are ready to begin your Google Slide presentation, you will select "Start Lesson" on the Pear Deck control panel of your Google Slide presentation. The students will then be given a code to go enter on a separate tab at <https://app.peardeck.com/join>. Once they have all joined with the code, you will then be sharing the slides with the students one

slide at a time on their Pear Deck tab while they can still hear your voice on the Zoom tab. This gives you the opportunity to read through the instruction slide and then read through each problem with the students one slide at a time. Once you have read through all of the problems with the students, you can then choose "Student Paced Mode" to free up the slides for each student to scroll through on their own device. Start your 30 minute timer and watch them on Zoom as they work through the 5 problems and give put in their numeric answers. Students can change their answers any time during the live session. Once you close the Pear Deck session after 30 minutes, their answers are locked in and they can no longer answer any questions

The students can now join you on their Zoom tab where you can pull up the Google Slide presentation and go over the questions and answers with the students. Later on you can go back to your automatically saved Google Slide/Pear Deck presentation to ask for the student responses in a Google Sheets form.

Schoology from PICO Courtney

I am wondering if we can set up the tests in Schoology and then I set up a teams meeting for them to take the test and I can monitor them? Just a thought. I know that is not everyone's Learning Management System but it could be an option. *NJR's response: if you use Schoology, go for it!*

I am hoping these ideas help, and don't muddy the waters further. Please feel free to call us if you have any pressing questions about getting your Mock Contest off the ground.