

Dear Colleague,

Thank you for supporting our evaluation study on multimedia tools for agricultural and environmental science students. This document contains links to send out to participants (your students) willing to participate in the evaluation process. As a first step, when they click this link, they will be asked to consent to participation in the study. They will then be directed through the rest of the process.

Taking part in this study for students will involve the following:

**If participating in the Sorption study:**

Please direct participants (your students) to the following link:

[https://nmsubusiness.az1.qualtrics.com/jfe/form/SV\\_3arSSGPTIA3nSwR](https://nmsubusiness.az1.qualtrics.com/jfe/form/SV_3arSSGPTIA3nSwR)

Participants will first be shown a consent form and asked to enter their name if they wish to participate. They will then proceed to a demographics questionnaire (asking about their previous academic experience) and the pre-test sorption knowledge exam. After the pre-test, students will be shown two sorption animated videos. After viewing the animated videos, participants will be presented with the evaluation questionnaire for the animated videos, followed by the post-test sorption knowledge exam. Student time commitment will be approximately 34 minutes. We recommend scheduling 40 minutes or one class period for the overall process.

Time commitment:

- *Demographic questionnaire* will take 5 minutes
- *Pre-test sorption knowledge exam* will take 5 minutes
- *Animated sorption video 1* will take 6 minutes
- *Animated sorption video 2* will take 8 minutes
- *Animated sorption video evaluation questionnaire* will take 5 minutes
- *Post-test sorption knowledge exam* will take 5 minutes

**If participating in the Cation Exchange study:**

[https://nmsubusiness.az1.qualtrics.com/jfe/form/SV\\_d0ZkDwih7SdMcHH](https://nmsubusiness.az1.qualtrics.com/jfe/form/SV_d0ZkDwih7SdMcHH)

Participants will first be shown a consent form and asked to enter their name if they wish to participate. They will then take a pre-test knowledge exam. After the pre-test, students will be shown an animated video. After viewing the animated videos, participants will be presented with evaluation questions about the video and demographic questions about their academic experiences. They will then take a post-test knowledge. Student time commitment will be approximately 25 minutes. We recommend scheduling 30 minutes or one class period for the overall process.

- *Pre-test cation exchange knowledge exam* will take 5 minutes.
- *Animated cation exchange video* will take 6 minutes.

- *Evaluation and demographic questionnaire* will take 5 minutes.
- *Post-test cation exchange knowledge exam* will take 5 minutes

If completing both the Sorption and Cation Exchange studies, we recommend setting aside 1 hour and 15 minutes of class time to administer the studies.

Please let us know if you have any questions. Our deepest thanks for your support of this educational research.

Sincerely,  
Kenneth Carroll  
Barbara Chamberlin  
Amy Muise  
Karen Trujillo  
April Ulery  
New Mexico State University