

Q1 Please select the option that best describes how the activity improve your skills in the following areas:

	Excellent (1)	Good (2)	Fair (3)	Insufficient (4)	Deficient (5)
Improvement of ability to do a literature survey (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to select an instrument for a specific analysis (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to design an experiment (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to calculate and prepare standards (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to solve unexpected experimental problems (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to analyze data (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of ability to pursue a research topic (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvement of laboratory skills (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q2 What is your perception of difficulty for the whole activity?

- ☐ Extremely easy (1)
  - ☐ Somewhat easy (2)
  - ☐ Neither easy nor difficult (3)
  - ☐ Somewhat difficult (4)
  - ☐ Extremely difficult (5)
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Q3 What is your preferred delivery method for lab?

- ☐ Face-to-face lab (1)
  - ☐ Virtual lab (2)
  - ☐ Mix of face-to-face and virtual lab (3)
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Q4 What is your preferred delivery method for lecture and virtual lab?

- ☐ Synchronous - online sessions conducted at scheduled course time (1)
- ☐ Asynchronous - online work done at your own pace (2)
- ☐ Mix of synchronous and asynchronous instruction (3)

Q5 Please pick the option that is the more effective in improving the following skills:

Virtual lab (1)		Face-to-face lab (2)
<input type="radio"/>	Literature survey (1)	<input type="radio"/>
<input type="radio"/>	Instrument selection based on project (2)	<input type="radio"/>
<input type="radio"/>	Experimental design (3)	<input type="radio"/>
<input type="radio"/>	Physical preparation skills (calibration/create standards) (4)	<input type="radio"/>
<input type="radio"/>	Troubleshooting (5)	<input type="radio"/>
<input type="radio"/>	Data analyses (6)	<input type="radio"/>
<input type="radio"/>	Laboratory skills (7)	<input type="radio"/>

Q6 Please select the option that best describes your attitude or perception:

	Strongly agree (1)	Somewhat agree (2)	Neither agree nor disagree (3)	Somewhat disagree (4)	Strongly disagree (5)
Virtual lab can replace face-to-face lab. (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual lab is good supplement to face-to-face lab. (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual lab is suitable in learning concepts. (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual lab fosters self-regulated learning. (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This activity improves my motivation to learn chemistry. (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This activity enhances my understanding of theory learned from lectures. (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This activity enhances my experimental skills learned from in-person lab. (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q6 What are the things you like about virtual lab activity?

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Q7 What are the things you DO NOT like about virtual lab activity?

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