

# CHEMISTRY SUMMER SEMINAR

*A special program for Juniors!*

*“Taking the next step toward a future in the world of science”*



## What is Kellenberg’s Chemistry Seminar all about?

Many Juniors at Kellenberg Memorial High School find that their chemistry class has opened their minds to new areas of science and has also sparked an interest in pursuing chemistry further.

In response to the interest expressed by many students, the faculty at Kellenberg has designed the Chemistry Summer Seminar’s curriculum to align with the content of the Chemistry SAT II, in order to help Juniors maximize success on this particular subject test. Students who choose not to take the SAT II in Chemistry will still benefit from the Seminar as they will be introduced to advanced Chemistry material with a focus on STEM. Students will utilize their iPads to access this material.

In addition to further preparing students for college chemistry courses, the seminar also reinforces laboratory techniques through hands-on chemistry lab experiments.

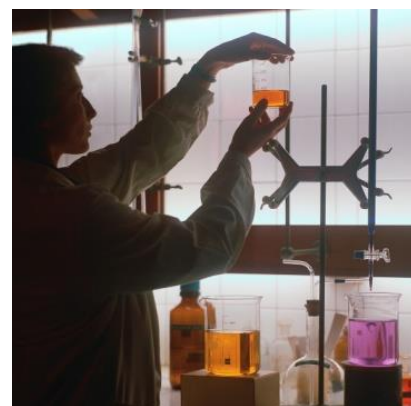
## Who should participate in this program?

Any Junior who has found chemistry interesting should consider participating in the Summer Chemistry Seminar. More specifically, a student considering a career in any of the following fields:

Doctor/Surgeon  
Nursing  
Exercise Science  
Nutrition

Physician’s Assistant  
Physical Therapy  
Occupational Therapy  
Pharmacy

Science Teacher  
Ecology  
Engineering  
Forensic Chemist



**“Quantitative analysis identifies an unknown substance based on its chemical properties.”**

## The Laboratory Experience

- A significant portion of the Summer Chemistry Seminar will be devoted to the laboratory experience of chemistry.
- In addition to demonstrations, seminar participants will learn practical, hands-on laboratory techniques.
- After reviewing proper safety techniques, students will perform a range of experiments and record information on their iPads.



*“The purpose is to extend the concepts and principles of chemistry that were covered during the school year which will be further explored during the seminar program.”*

## What are some topics for seminar classes and labs?

Some of the topics that may be covered both conceptually and practically through hands-on laboratory work include:

- Finding the empirical formula of a chemical compound using experimental data
- Graham's Law of Diffusion
- Observing and quantifying gas by using the Ideal Gas Law
- Hess's Law for exothermic reactions
- Factors affecting the rate of a chemical reaction
- Determining solubility constants
- Serial Dilutions
- Determining molar concentrations using titration techniques

## Summer Chemistry Seminar Information

The dates and times for the 2020 seminar are as follows: June 19<sup>th</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup>

The seminar starts at **9:00 am and ends at 12:00 noon.**

The Seminar is available to all students at Kellenberg who are currently taking Chemistry.

Students are responsible for returning their iPads at the conclusion of the seminar.

**Additional information and registration procedures will be presented to students during their chemistry class.**

### For further information please contact:

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