

#CCEW April 17-23 - 2022

THE BUZZ ABOUT BUGS: insect chemistry



An Online Outreach Event by NJACS

Safety Guidelines for Participants

The goal of this online event is to demonstrate activities that can be repeated at home by viewers. It is critical that the demonstrators practice safe science and clearly communicate necessary safety precautions to the viewers. Please keep in mind that you are not physically present to help viewers when they repeat these activities.

- To ensure a safe activity/demo, and prevent any hazardous outcome you should think about **RAMP**:
 - **RECOGNIZE** any potential hazards in your experiment.
 - **ASSESS** that the risk of each of these hazards.
 - **MINIMIZE** the risk by carrying out the activity in the safest way possible.
 - **PREPARE** for emergencies e.g. if fire is involved, keep an appropriate fire extinguisher handy.
- When you are doing a chemical demonstration, make sure to tell the young audience that they should be supervised by an adult at all time.

Demonstrators must:

- **ALWAYS** wear safety goggles or safety glasses even when working with water.
- **ALWAYS** wear appropriate personal protective equipment (PPE) (e.g., aprons, lab coats, gloves, goggles/glasses).

CHEMICALS:

- Nothing explosive, flammable, oxidizing, corrosive, acutely toxic or hazardous to the environment may be used or produced. **Search for the chemical's SDS for more information.**
- Everything used must be **safe** and **in small enough amounts** to be thrown in the garbage or down the sink.
- While carrying out the experiment, **DO NOT** encourage young scientists to eat any part of the experiment.
- Kitchen chemistry may involve making food to eat. If so, at the end of the activity, please clean your area, remove PPE, and enjoy the edible product.
- If candy is used for demo/activity, keep a separate batch of candy aside (not in the lab space) for eating.

To Provide Heat:

- Open flames (candles/stove) may be used **ONLY** with the proper precautions. If possible, use microwave instead of open flames. Remind the viewers that any heat source must be attended to at all times so no one gets hurt.

For prior approval, send list of chemicals to be used for activity/demo as well as any needed safety measures to: Dr. Keyser (sandrakkeyser@gmail.com)



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Guidelines for Participants

The activity should:

1. Pertain to the topic or theme.
2. Demonstrate scientific concepts or related aspects of the topic.
3. Show creativity.
4. Draw attention and interest of the audience.
5. Be conducted safely using common materials or household chemicals.
6. Exercise the principles of Green Chemistry

***To discuss activities please contact
Dr. Keyser at sandrakkeyser@gmail.com
and arrange a zoom meeting***