Conscientious Chemists

Supplemental Curriculum	Grades 3–8
Notes	Flower Power investigation requires 1 – 2 weeks for observations.

Description

How can we develop technology that doesn't hurt the environment?

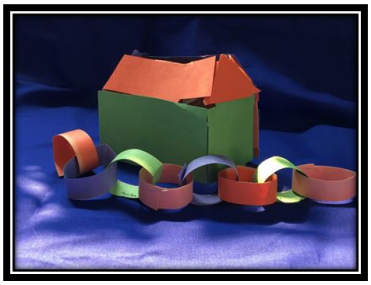
Invention and technology advancements are an integral part of human nature. But some of our innovations have taken a toll on the Earth, and force us to ask the question, "How does humanity continue to develop and advance technology, while protecting its environment?"

The field of green chemistry is attempting to address that very question.

In Conscientious Chemists, we talk to folks working on this problem from many different perspectives – entrepreneurs, researchers and policy makers – to understand and explore how all the pieces fit together. Join us as Stacy, Christoph, Jared, Jason and others talk about what they are doing to drive innovation forward in this field while preserving the environment.

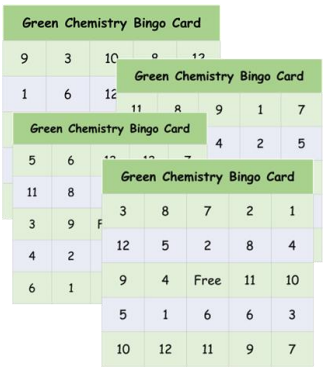
Main Investigations

Waste Not, Want Not



Flower Power

Green Chemistry Bingo



Number of Lessons*

Supplemental program – minimum 5 lessons
(requires 1-2 weeks for Flower Power)

**Lesson = 30–40 min. block, 50% of full unit lessons can be delivered in non-science classes*

Best Suited For

- Classroom science instruction

Parts List

Supplemental Unit

Printed Materials

- Educator Guide
- Individual *My STEM Explorer Notes™* notebooks
- Individual *My STEM Stories™* notebooks
- Timeline sheets
- Green Chemistry Bingo Cards
- Waste Not, Want Not templates

Trade Books

No trade books are provided at this time.

Provided Equipment & Materials

No experimental materials are provided at this time

Experimental Materials Needed but NOT Provided

- Waste Not, Want Not
  - Construction paper, tape, scissors
- Flower Power
  - Cut flowers, typical household chemicals (salt, sugar, vinegar, food coloring, etc.), small cups or containers, water

Digital Resources

- Electronic copies of printed materials[1]
- How-To videos for investigations[1]
- Easy-to-use links to publicly available videos and other information.