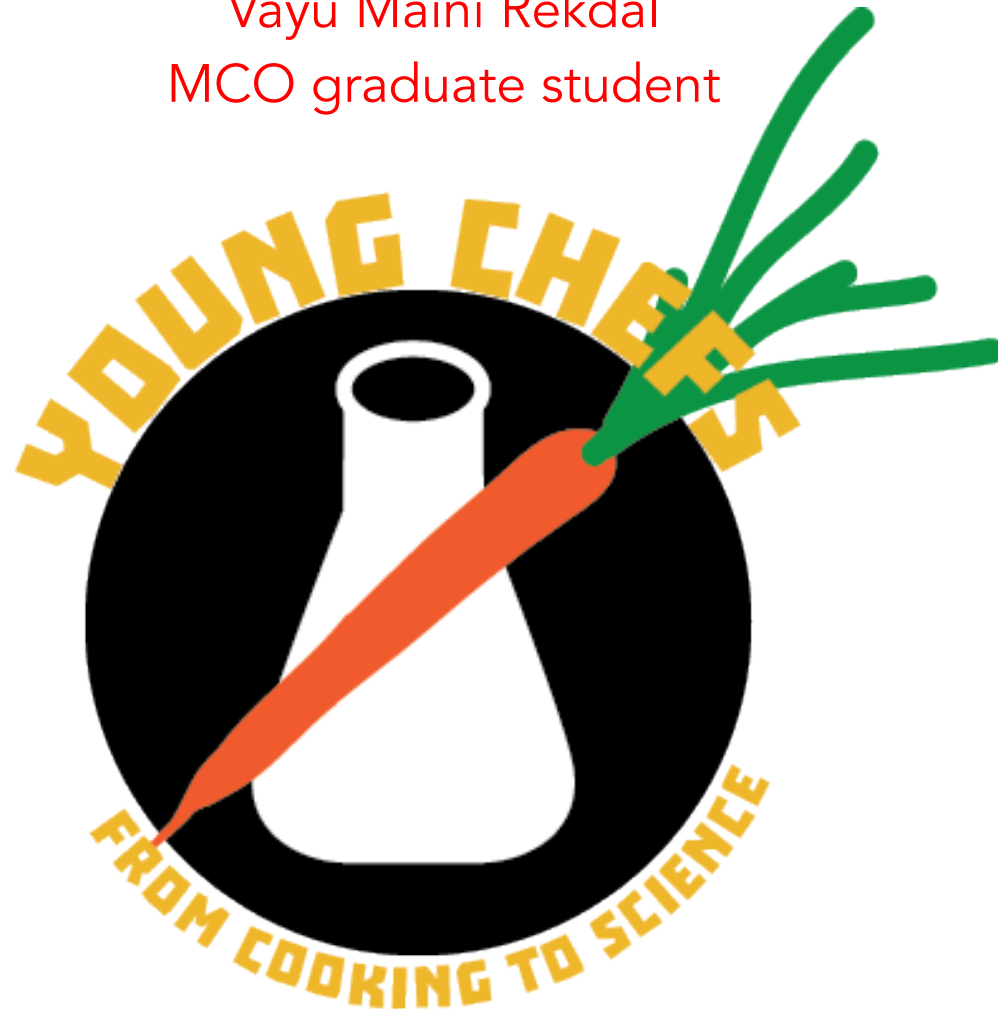


Young Chefs: From Cooking to Science

11/10/2015

Vayu Maini Rekdal
MCO graduate student



Cooking



Life Vayu visar stolt
upp sin älskade nygräddade
naan. Brödkorgen
från Klara kostar 125 kr.

★NAAN – INDISKT BRÖD
se receptkort

Cooking



Science



Young Chefs Program

- Started at Carleton College, MN 2011
- Uses cooking to teach scientific concepts and methods to youth
- Programs in U.S, Canada, Philippines; most are teacher partnerships



SCIENCE



COOKING



MENTORING



- Empower students with tangible culinary skills and knowledge
- Engage students with scientific concepts and methods
- Inspire success in the classroom, kitchen, and beyond

Goals of today

- Explore examples of teaching science through cooking
- Learn how to use Young Chefs resources in classroom

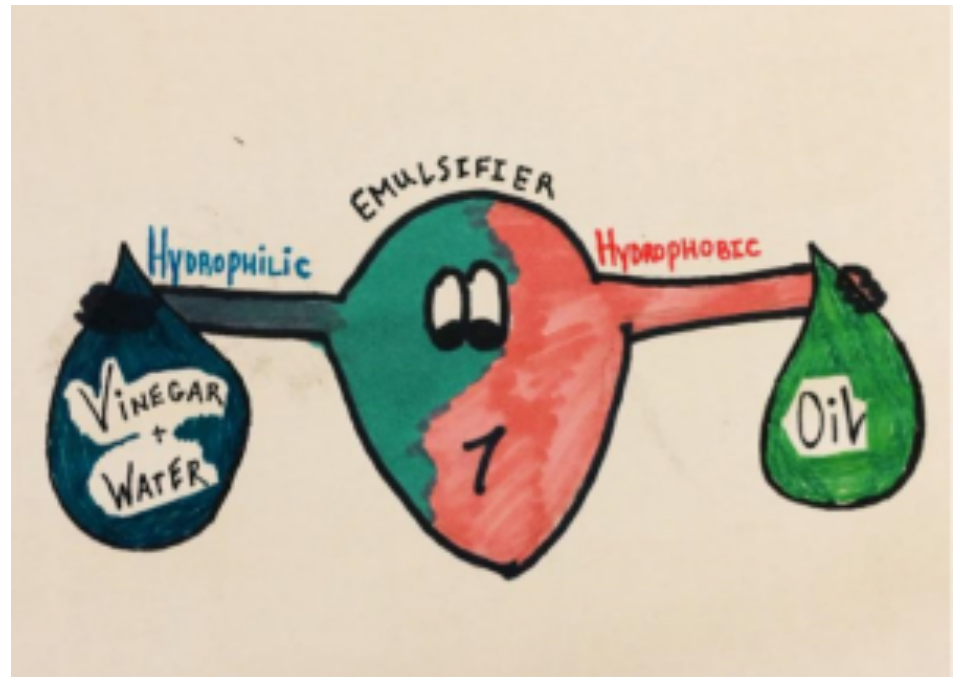
Curriculum

- Focuses on culinary creativity and exploration
- Spans biological and physical sciences
- Mapped to the NGSS and MN State Science Standards

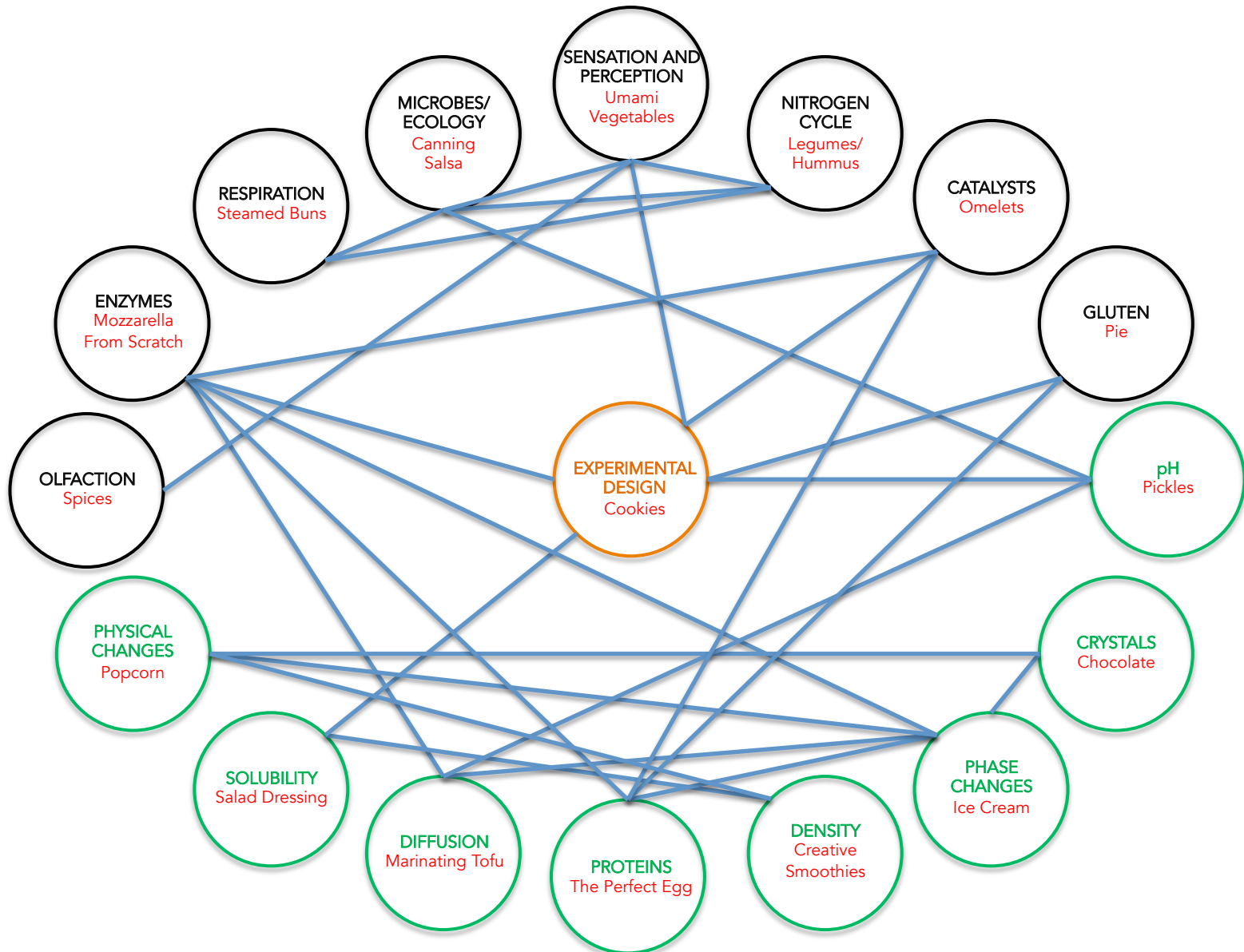


Lesson Plans

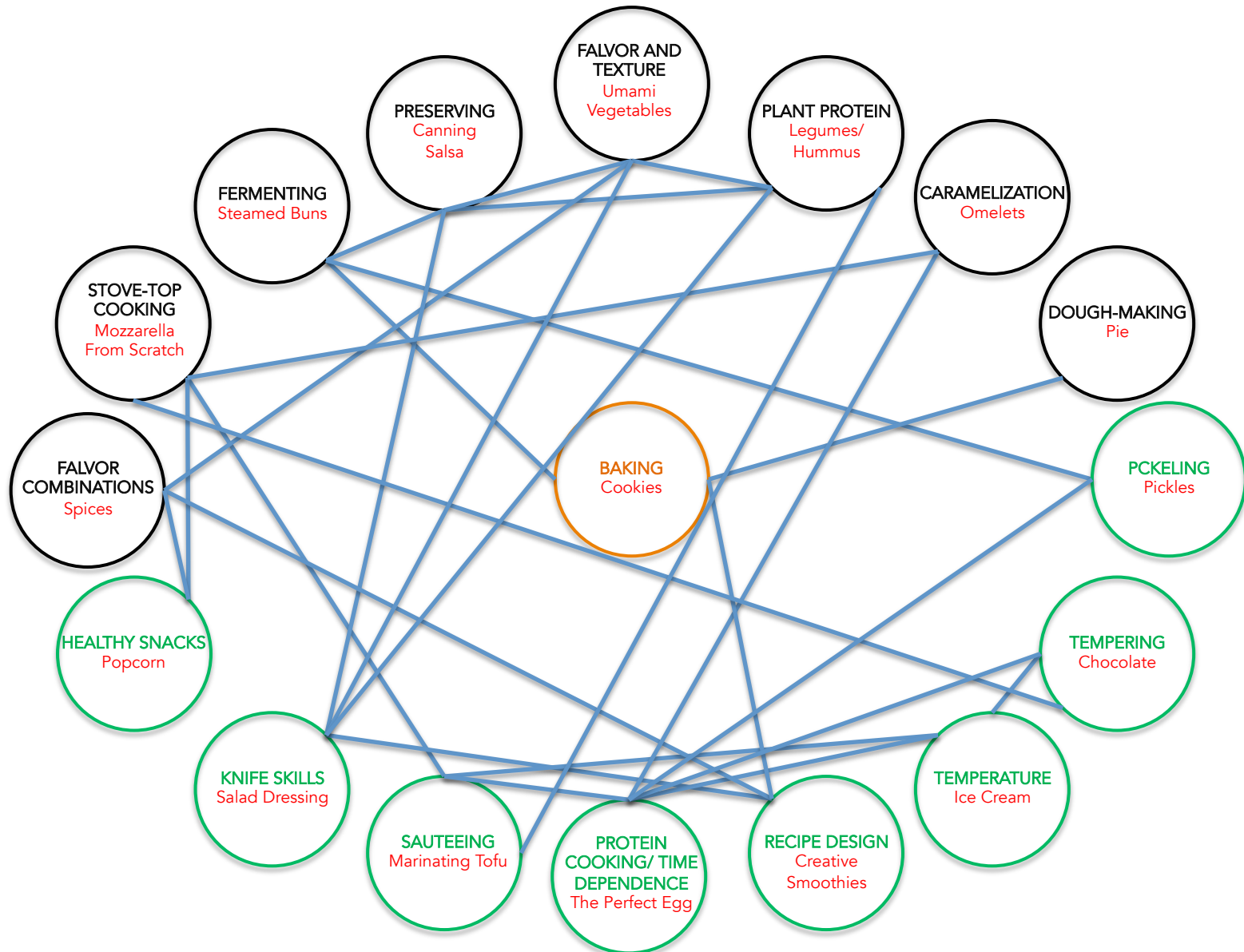
- Focuses on scientific method: observation, conclusions
- Contains scientific background, lesson roadmap
- Symbols, diagrams, demonstrations



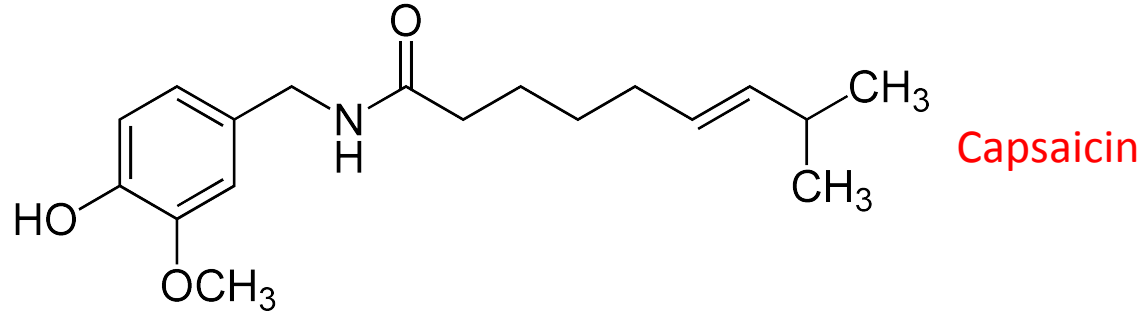
A SCIENTIFIC NETWORK



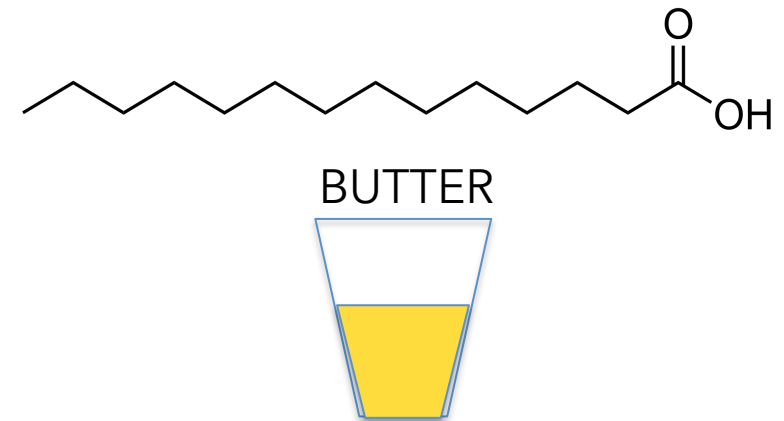
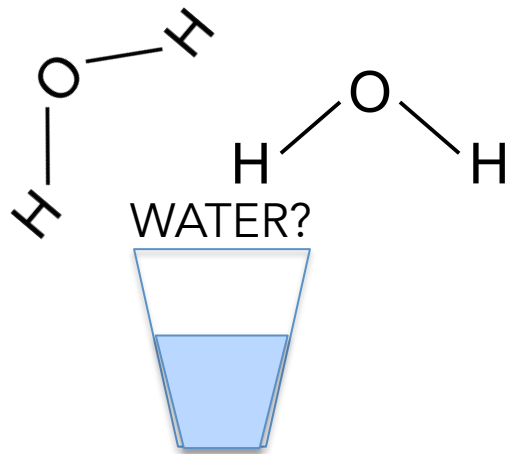
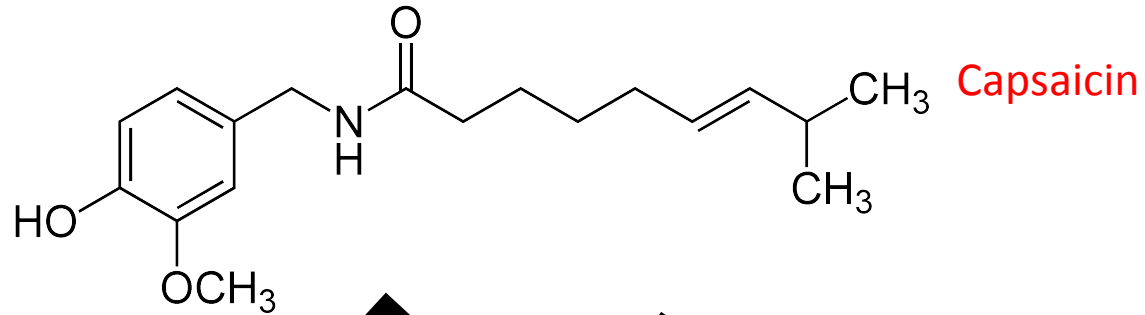
A CULINARY NETWORK



Chili peppers: Evolution and Natural Selection



Chili peppers: Molecular solubility



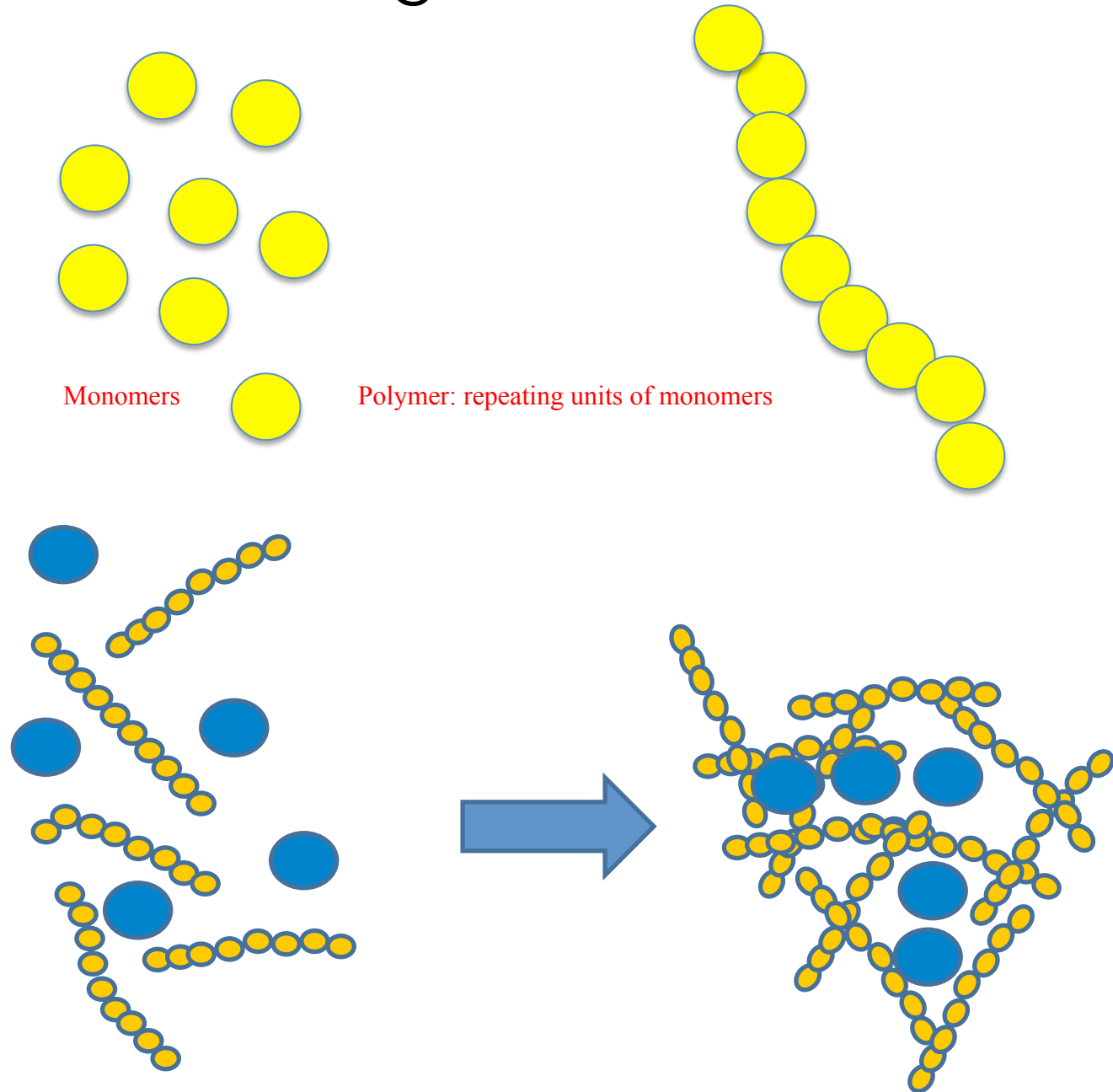
Chili peppers: Molecular solubility



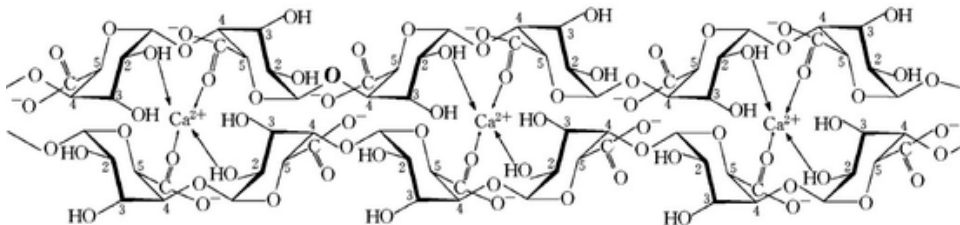
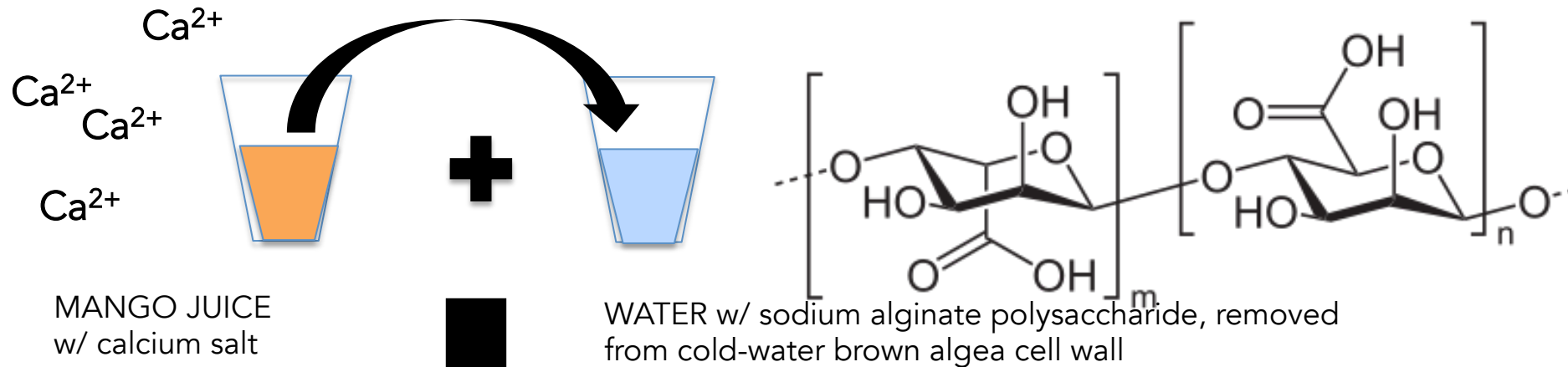
Chili peppers: Molecular solubility



Polymer crosslinking: structure and function



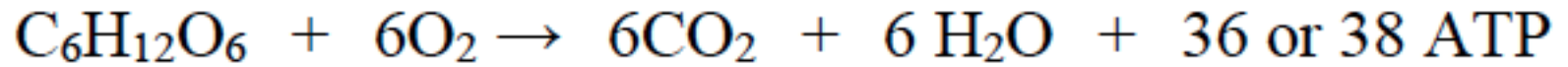
Polymer crosslinking: structure and function



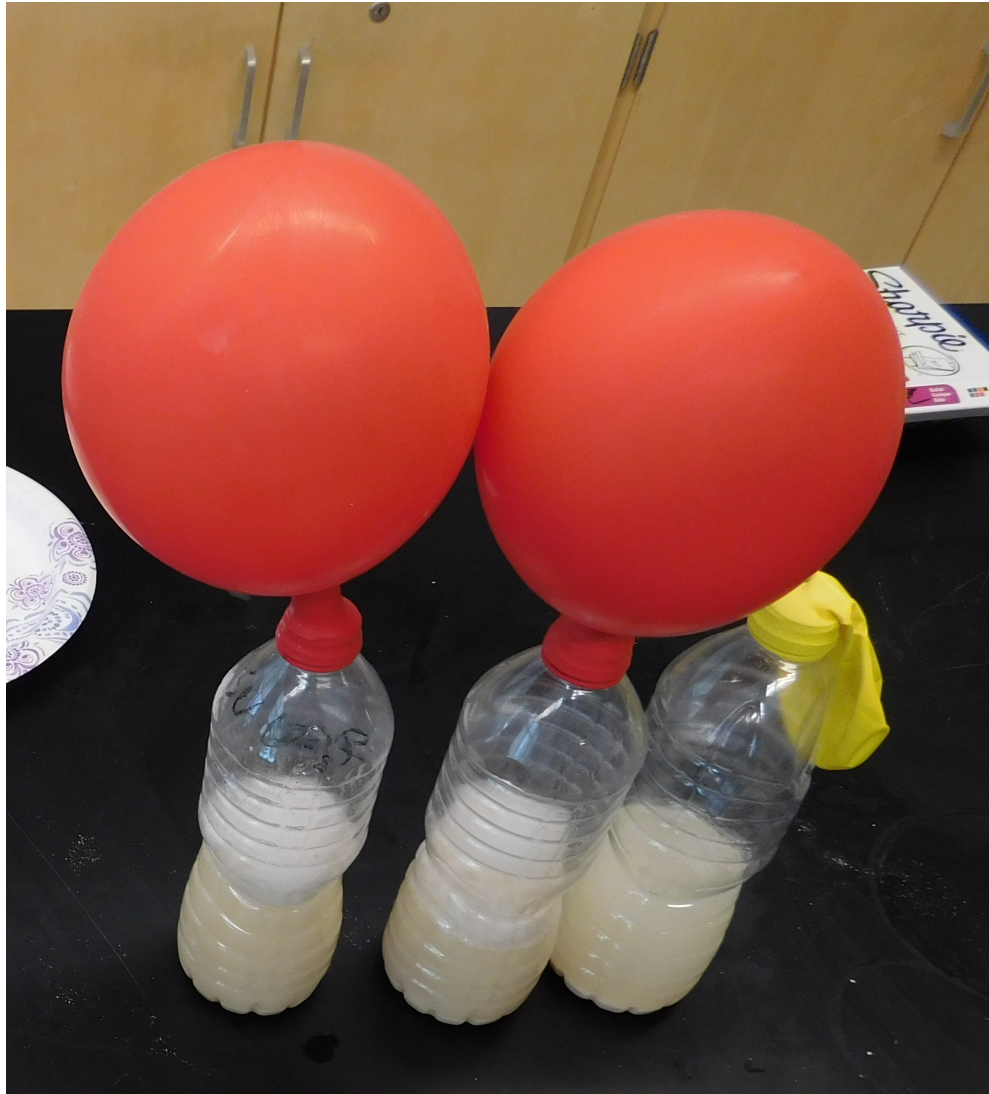
Polymer crosslinking: structure and function



Respiration: matter and energy



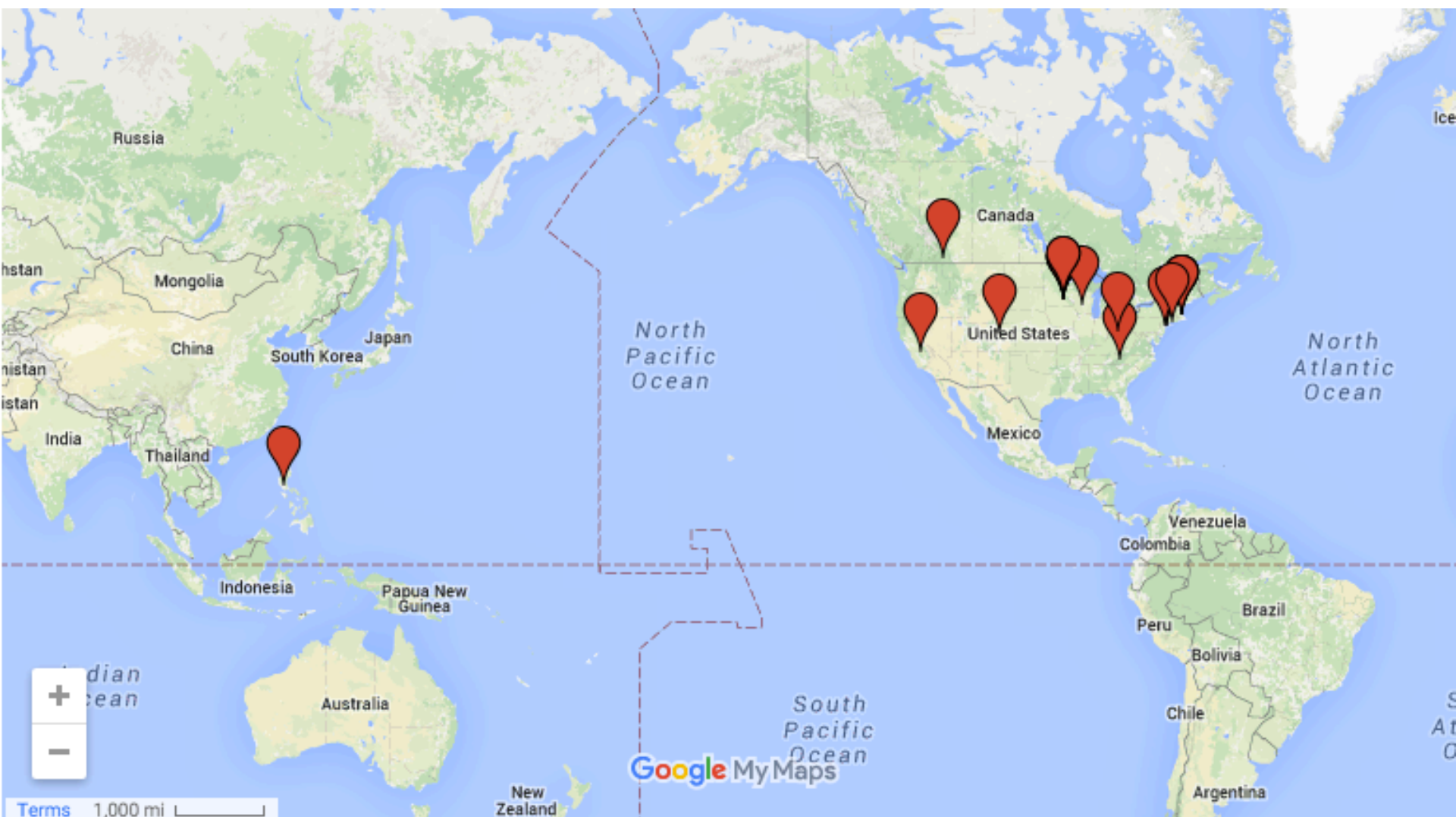
Sugar + Oxygen \rightarrow Carbon Dioxide + Water + Energy



Respiration: matter and energy



<http://youngchefsprogram.org>
youngchefprogram@gmail.com



Join us!

- Bill Yosses, Former White House Pastry Chef
- Deborah Gross, Carleton Professor of Chemistry
- Eric McDonald, Carleton Professor of Science Ed.
- Carleton College volunteers and leaders
- Carleton Center for Community and Civic Engagement
- Harvard Medical School; Harvard SEAS
- Fort Peck and Hopi Native American Tribes
- NYC Department of Education
- MIT Urban Agriculture Lab

