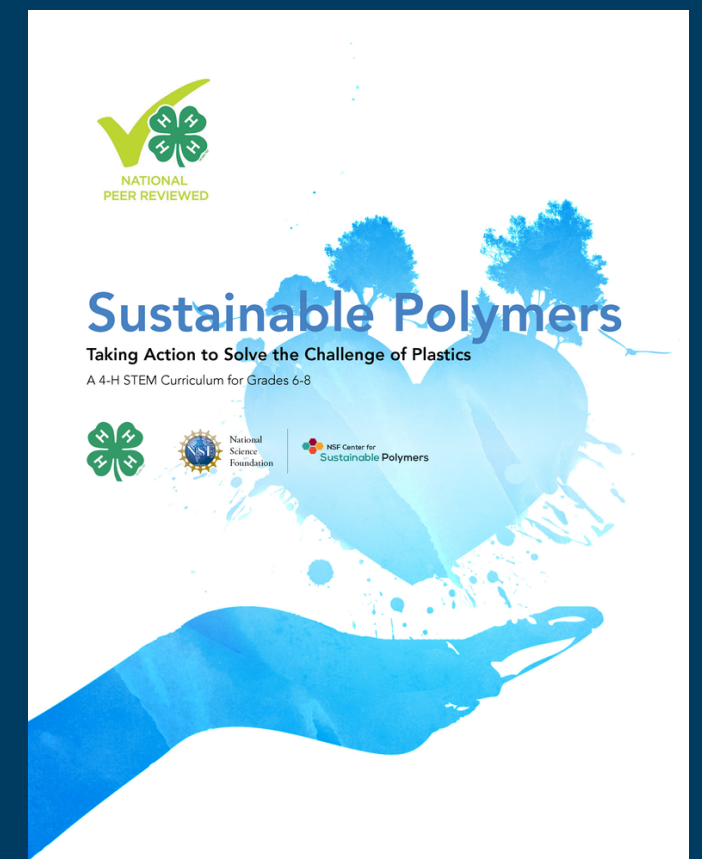
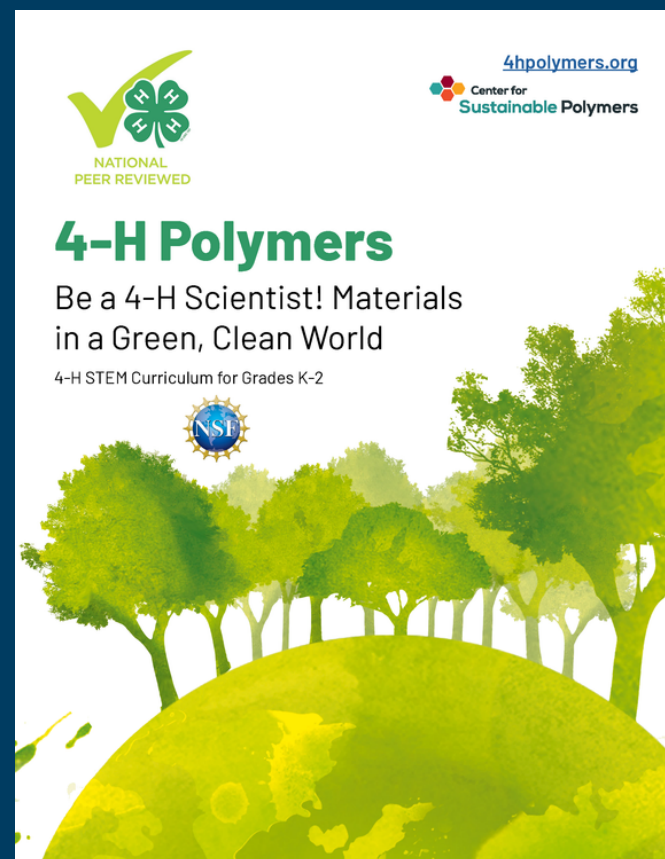


University of
Minnesota

Cornell University

University of
California

Sustainable Polymers: 4-H STEM Curricula



01. Curriculum Objectives

Prevalence and Impacts of Plastics

Youth explore impacts of oil-based plastics, emerging work on bioplastics, environmental sustainability, and science and engineering practices.

02. Curriculum Elements

For out-of-school time K-2, 3-5, and 6-8th grades

- For professional or volunteer educators.
- Group activities follow experiential learning cycle.
- Includes authentic application.

03. Evaluation

Preliminary, Pilot, and Outcome Evaluations

Tested with hundreds of youth and data collected by youth surveys and educator feedback.

“Going from an inquiry activity to an action learning project is a great way to engage youth and get them to ask those big questions.”

<https://www.4hpolymers.org/>



National
Science
Foundation

NSF Center for
Sustainable Polymers