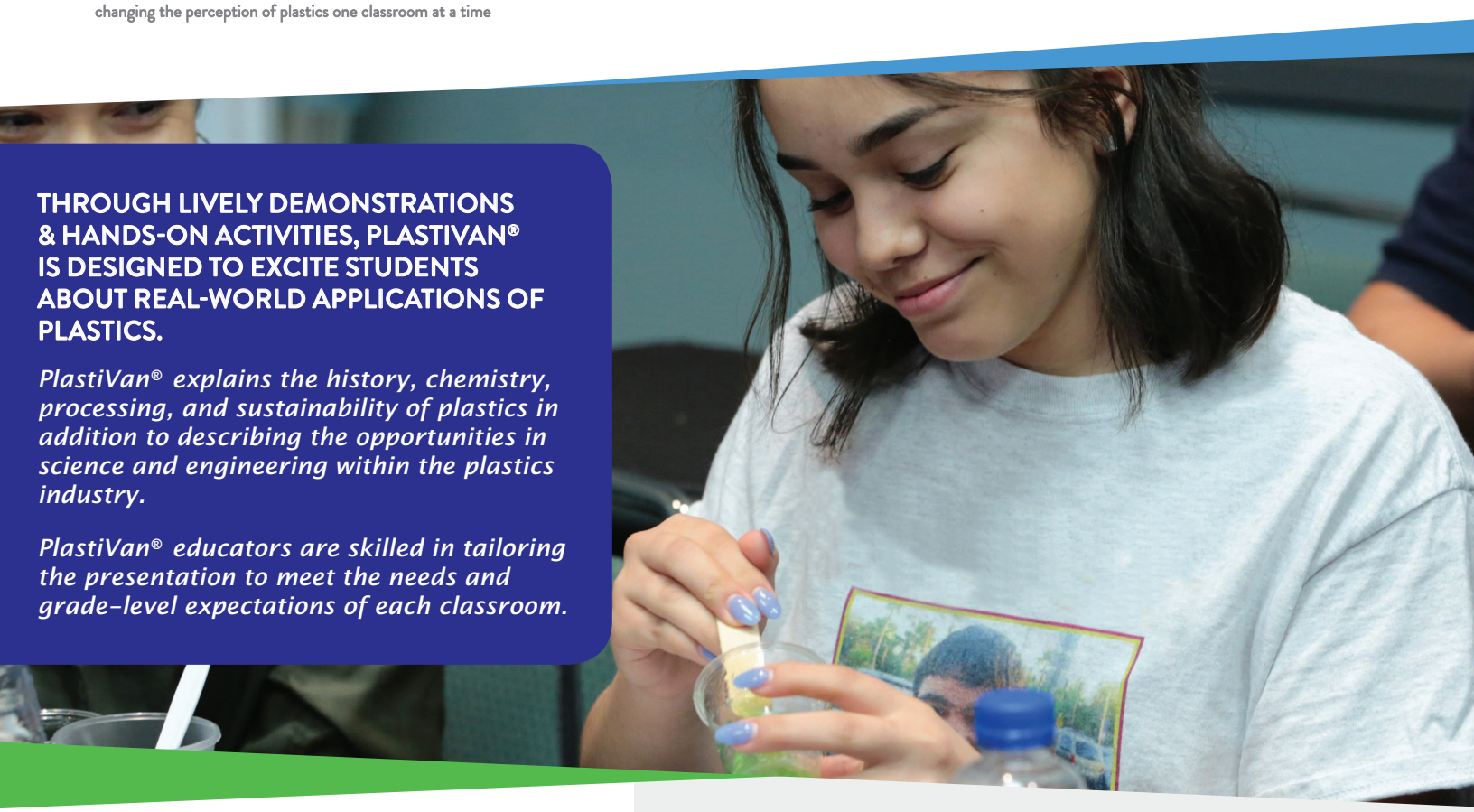
spe PlastiVan®
changing the perception of plastics one classroom at a time

Braskem



THROUGH LIVELY DEMONSTRATIONS & HANDS-ON ACTIVITIES, PLASTIVAN® IS DESIGNED TO EXCITE STUDENTS ABOUT REAL-WORLD APPLICATIONS OF PLASTICS.

PlastiVan® explains the history, chemistry, processing, and sustainability of plastics in addition to describing the opportunities in science and engineering within the plastics industry.

PlastiVan® educators are skilled in tailoring the presentation to meet the needs and grade-level expectations of each classroom.

HIGH SCHOOL TOPICS

- History of polymers/plastics
- How your life is impacted by plastics
- What engineers and scientists do
- Major industries that use plastics
- Basic raw materials for plastics
- Fractional distillation of crude oil
- Biopolymers and sustainable materials
- Amorphous and crystalline polymer structure
- Manipulating amorphous polymer chains
- Injection molding and thermoplastics
- Bottle preforms and blow molding
- Thermoset plastics and crosslinking
- Open-and closed-foamed polymers
- Material selection in product design
- Hydrophilic, hydrophobic, & oleophilic polymers
- Crosslinked polymers & non-Newtonian fluids
- Recycling best practices
- Chemical vs. Mechanical Recycling
- Marine Debris – Causes and Solutions
- Recycling in your community
- Single-use item vs. single-use material
- Circular Economy vs. Sustainable Materials Management

Curriculum aligns to Next Generation Science Standards

PROGRAM GOALS

- DEMONSTRATE THE BENEFITS OF PLASTICS IN EVERYDAY LIFE
- EXCITE STUDENTS ABOUT CAREER PATHWAYS IN THE PLASTICS INDUSTRY
- ENCOURAGE STUDENTS TO RECYCLE AT HOME AND SCHOOL
- CHANGE THE PERCEPTION OF PLASTICS ONE CLASSROOM AT A TIME

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