

# EVERYDAY CHEMISTRY 101

## APPLIED SCIENCES

**Designed For Students:**  
Grades 4th-5th  
Ages 9-10

**Program Length:**  
3 hours

**Park:**  
*Epcot*®  
(Morning) Meet outside the Main Entrance near the Group Sales Ticketing Window  
(Afternoon) Meet at the Innoventions Tip Board

### OVERVIEW

Your group will travel through Futureworld to identify elements of the Periodic Table, study polymers, and see chemical reactions happening all around them. Plus, a visit to Mission: Space® will help uncover the relationship between chemistry, space exploration and technology. This program was developed in conjunction with the Education Division of the American Chemical Society.

### LEARNING OUTCOMES

#### This is Chemistry

- Students learn the properties of elements, how they react with one another, and how different combinations can create substances for a variety of uses

#### Where is Chemistry

Students learn that chemistry is happening around us all the time.

- Students learn that everything in the world, whether natural or human-made, is composed of one or more of about 100 elements
- Students are introduced to the versatile elements of hydrogen, carbon, and oxygen

### In the Beginning

At Ellen's Energy Adventure attraction, students gain knowledge of the interconnectivity of carbon, hydrogen, and oxygen in the formation of energy that keeps us moving, working, and playing.

- Students learn the role of photosynthesis in their everyday lives
- Students understand the chemical make-up of objects
- Students gain an appreciation of fossil fuels as a limited resource

### Polymers and Plastics

- Students construct a model of a polymer
- Students discover three classifications of polymers
- Students will discover that chemistry can aid in producing substitutes for limited resources, reduce waste, and improve efficiency

### Putting Chemistry to Work

- Students examine how chemistry is at work for humankind everyday
- Students are introduced to solar energy as an alternative to fossil fuels

### GROUP LEADER RESOURCES

A video overview of *Everyday Chemistry* is available on the Disney Youth Programs YouTube Channel.

National Standards and supplemental educational materials aligned with this program are available at DisneyYES.com.



Disney Youth Education Series programs are accredited by the Northwest Accreditation Commission.



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All programs subject to availability. Program content, times, attractions, and locations subject to change due to inclement weather, availability, or group dynamics. Students must meet minimum age/grade requirements.

Start planning your field study today! Call 877-FIELDTRIP (877-343-5387) • Visit DisneyYES.com

