

DISNEY Y.E.S. PROGRAM DESCRIPTION



EVERYDAY CHEMISTRY

PHYSICAL SCIENCE

Grade Levels:
4th-9th

Program Length:
3 hours

This program is aligned with National Standards.

Meeting Location:

(Morning) Outside *Epcot*® Main Entrance near the Group Sales Ticketing Window

(Afternoon) Inside *Epcot*® at the Innoventions Tip Board located in Innoventions Plaza.

OBJECTIVE

In one way or another, we all do chemistry. It happens in the kitchen, when we clean our homes, in fact almost everything around our homes has benefited from the application of modern chemistry. Set in Future World at Epcot®, this exploration of chemistry will take students on a journey of discovery as they investigate the many facets of this incredible science. Students will learn that everything around us is made up of chemicals, discover some of the amazing effects that chemistry has on our way of life, and uncover the fascinating world of what scientists often call the “central” science.

KEY LEARNING HIGHLIGHTS

This is Chemistry?

- Through an experiment with two similar chemical compounds, students learn that chemistry is all about understanding the properties of elements, how they react with one another, and how different combinations can create substances for a variety of uses.

So What is Chemistry?

Students learn that while it is true that chemistry takes place in scientific labs, it is also true that it is happening all the time and all around us.

- Students are introduced to the fact 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 discover the value of understanding the chemical make-up of things.
- 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 an understanding of 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.
- At *Test Track* students get a glimpse into chemistry at work in the manufacturing of automobiles.
- Students are introduced to solar energy as an alternative to fossil fuels.
- Students learn that chemistry has been around for thousands of years and how it still produces surprising results in today's world.

THE DISNEY DIFFERENCE

- This program has been developed in conjunction with the Education Division of the American Chemical Society.
- Trained and knowledgeable *Disney Y.E.S.* Cast Members facilitate this high-quality and educationally sound program, while never forgetting that fun is a vital part of learning.

All programs subject to availability. Program content, times, attractions, and locations subject to change due to inclement weather, availability, or group dynamics.



The *Disney Y.E.S.* program, Everyday Chemistry, has been developed in conjunction with the Educational Division of the American Chemical Society



Disney Y.E.S. programs are accredited by Northwest Association of Accredited Schools.

Toll-free Phone: 877-FIELDTRIP (877-343-5387) • Web: www.DisneyYES.com

