

DISNEY Y.E.S. PROGRAM DESCRIPTION

EVERYDAY CHEMISTRY

PHYSICAL SCIENCE

Grade Levels:
4th-9th

Program Length:
3 hours

Meeting Location: (Morning) Outside *Epcot*® Main Entrance, near Guest Relations Window.

This program is aligned with National Standards.

OBJECTIVE

The science of chemistry is de-mystified as participants discover how the millions of things that we use everyday are the result of chemistry.

KEY LEARNING HIGHLIGHTS

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 or so elements.
- Students discover how an understanding and knowledge of the properties of elements enable scientists to experiment with different combinations to create substances.
- Students are introduced to hydrogen, carbon and oxygen as elements.

It's Not Easy Being Green!

Students uncover the role that photosynthesis plays to everything that is alive.

- Students are introduced to photosynthesis.
- Students discover how essential the elements of hydrogen, carbon, and oxygen are to daily life.
- Students discover the source of energy that keeps them playing, working, and traveling.
- Students understand the value of understanding the chemical make-up of things.
- Students gain an appreciation of fossil fuels and limited resources.



Discover Polymers and Plastic

Through hands-on activities and experiments students uncover the world of plastics.

- Students discover how an understanding of chemistry can aid in producing substitutes for limited resources, eliminate waste, improve efficiency etc.
- Students identify the three classifications of polymers and their uses.
- Students uncover that without the sun and living material, polymers would not be available.

See Chemistry at Work

Students experience how chemistry is at work for humankind everyday.

- Students explore the vital role of solar energy.
- Students discover how the transportation industry is benefiting from chemistry.
- Students learn that chemistry has been around for thousands of years and that many cultures and civilizations have contributed to the knowledge that is available today.

THE DISNEY DIFFERENCE

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



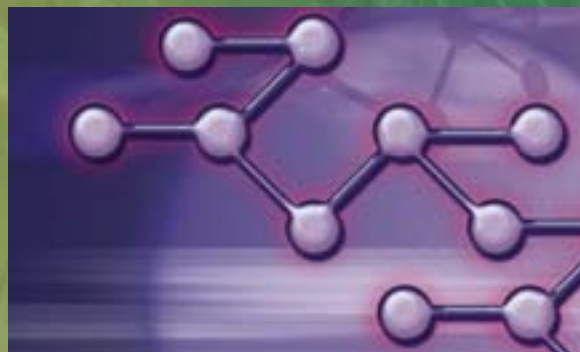
Your
Walt Disney World

For more information, visit us online at DisneyYES.com or call toll-free 877-FIELDTRIP (877-343-5387)

DISCOVER THE CHEMIST IN YOU.

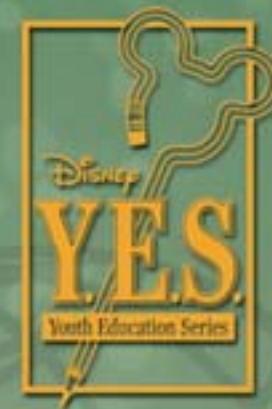


In the new *Disney Youth Education Series* program, **Everyday Chemistry**, the mysterious world of science that surrounds us is revealed. Participants will be amazed, amused, and enlightened through hands-on experiments and Theme Park attractions that unlock the imagination and inspire creativity. Plus, they will discover how the millions of things that we use everyday are the result of chemistry. When you get down to the basics, we are all chemists.



Learning Highlights

- ▶ 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 uncover the role that photosynthesis plays to everything that is alive.
- ▶ Students uncover the world of plastics through hands-on activities and experiments.
- ▶ Students experience how chemistry is at work for humankind everyday.



Your
WALT DISNEY World.

© Disney

For more information, visit us online at DisneyYES.com or call toll-free 877-FIELDTRIP (877-343-5387).