



Summer Learning Institute Program Course Outline

Jr. Einstein

This camp is the perfect place for your little scientist to take their first steps into the exciting world of exploration and discovery. Campers will have a chance to discover the wonders of the environment, conduct colorful chemistry experiments, and explore the science behind everyday objects. Campers can ask questions, seek answers, and cultivate a lifelong love for science.

All program classes are organized to address the following aspects:

- STEM/STEAM Education.
- Cultivate an interest in Art, Science, and History.
- Continued knowledge and comprehension regarding Volusia County School Standards.
- Develop interpersonal skills such as teamwork and problem solving.
- Foster curiosity and imagination of the world around us.

Pre-requisites: None

Date: June 17-21

Software/Materials/Books/Media: Handouts and materials provided in class.

Exhibits/Galleries that correspond with camp:

- Children's Museum
- Pre-History of Florida
- Lohman Planetarium
- Sensory Garden in front of Tuscawilla Nature Preserve

Course Objectives:

Students will:

- *Learn different fields of science (Paleontology, chemistry, etc.)*
- *Learn about Force and motion.*
- *Understand how the water cycle works.*
- *Learn what a rainbow is.*
- *Learn how to observe and take notes on what they see.*
- *Learn about fossils.*
- *Learn about chemical reactions.*

5 Day Course Outline Example:

Schedules must consider, lunch time, snack time, free play, and lessons in the gallery. All movies/shows must be approved by MOAS staff prior to viewing.

- Day One: Story time, what is a scientist, Apple observation activity, sink or float activity, Painting with apples, Nature walks with magnifying glasses (front part of Tuscawilla and sides of building), Observe the apples turn brown, Dancing seeds, apple volcano.
- Day Two: Story time, what is a Paleontologist, how are fossils formed, Paleontologist tools, Chocolate Chip cookie excavation and graphing, Frozen fossils excavation activity, Dino molds, hands on fossil activity from Edu storage.
- Day Three: Story time, Water cycle lesson, start water cycle window experiment, walking rainbow activity, Making Rain activity, States of matter (Solid, Liquid, Gas experiment, Check on water cycle experiment, Water cycle paper plate craft.
- Day Four: Story time, Planetarium show, Homemade bubble solution, Make bubble wands activity, Bubble art (outdoor activity), NISE Sublimation bubble kit, Lava Lamp activity.
- Day Five: Story time, Force and Motion lesson, Magnet painting, Magnet maze activity, Magnet blocks, Marshmallow shooter craft/activity, Balloon rocket race, baking soda and vinegar rockets.

Assessment:

Student's ability to demonstrate the following:

1= Below Expected Outcome

3= Meets Expected Outcome

5=Exceeds Expected Outcome

The Student Has:	1	2	3	4	5
Demonstrated knowledge and understanding on what a scientist is					
Demonstrated knowledge and understanding about weather					
Demonstrated knowledge and understanding about Force and Motion					