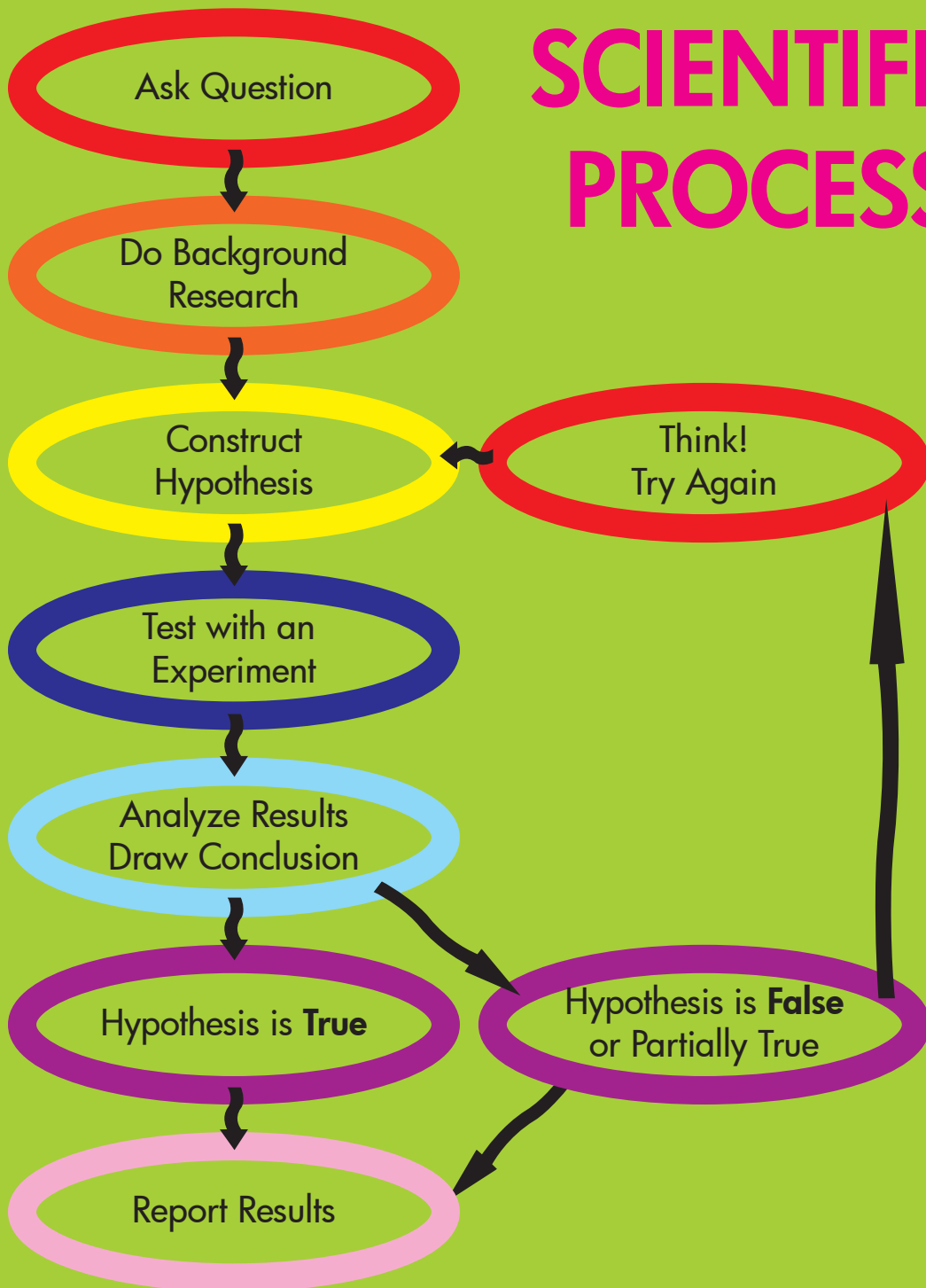


# SCIENTIFIC PROCESS



2009-2010 6-12 School Guide



THE SCIENCE MUSEUM

941.309.4949 • [www.gwiz.org](http://www.gwiz.org)

Prepare for the most exciting year at G.WIZ ever!

## TEACHERS:

Want your students to get excited about science? Let our highly qualified science teachers get your classes in tune with science while utilizing the Sunshine State Standards. G.WIZ offers a variety of fun, exciting, hands-on, educational exhibits and workshops that come to life for your students and inspire them about science and math.

EXTENDING YOUR CLASSROOM IS AS EASY AS A B C:

### A. G.WIZ Self-guided School Visits

- \$5 per student – explore GWIZ exhibits

### B. G.WIZ Workshops

- \$8 per student – Workshop + G.WIZ

### C. G.WIZ On The Go Programs

- \$195 – classroom outreach
- \$395 – general assembly

Your G.WIZ GUIDE has all the information you need to make your school visit A+. You'll find:

- suggested grade levels, programs, descriptions
- appropriate Sunshine State Standards

For reservations, questions or special requests please contact us at 941. 309.4949 ext 116

## HERE'S WHAT TO DO:

### **Reservations**

Review the Education Program Guide.

Select the program(s), date(s) and times(s) for your G.WIZ experience.

Call for Reservations no less than two weeks prior to your desired program date.

Credit Card required reserving your date at the time of booking your visit.

Cancellations must be made 72 hours prior to date of visit.

*Have the following information ready:*

- School or organization name
- Program choice
- Complete address and telephone number
- Contact person/group leader, email address
- Number of classes, children and adults
- Grade/age level
- Arrival and departure time
- If lunch area is required

### **Group Size**

Minimum of 15 students required for self-guided group admission rates.

Minimum of 20 and maximum 45 students required to select workshops.

CSI Workshop – maximum 30 students per workshop.

Classes exceeding maximum size must be divided into smaller groups.

Larger groups should plan a longer time or consecutive day visits to G.WIZ to facilitate rotation of students through programs.

### **Payment**

One payment for entire group is due upon arrival.

Workshops are subject to additional fees if fewer than 20 students.

G.WIZ membership benefits, coupons, special passes and other discounts do not apply to student group rates because of additional services required for groups.

### **Confirmation**

A confirmation packet with invoice, confirmation letter and other information about your visit will be emailed within one week after your reservation is made. Please present your confirmation form and include the actual number of participants in your group upon arrival.

#### **\*Chaperone Requirements & Responsibilities**

Minimum number of chaperones required and admitted free

Middle School and High School                      1 adult per 10 students

Special Needs Groups                                      As needed

\$5 per chaperone over required minimum number.

Chaperones with valid G.WIZ membership admitted free for regular field trip.

All chaperones must be 18 years of age or older.

\*Teachers/Chaperones are responsible for the STUDENTS' SAFETY AND BEHAVIOR and must stay with the students at all times. Please note that teacher and chaperone participation is required.

- G.WIZ reserves the right to remove uncontrolled groups from our exhibit floor.
- Photo Consent: Students and teachers may be photographed by media, and/or museum staff. If a child does not have photo consent, please identify that student to photographer.
- Please have your group clean up after themselves, including lunch areas and restrooms.

**Contact G.WIZ at 941.309.4949 x116**

## A. SELF-GUIDED SCHOOL VISITS - \$5 per student

Students explore and discover over 85 hands-on exhibits at G.WIZ.

Watch students come alive as they enhance and enrich their understanding of science through

Hands-on, inquiry-based learning.

Schedule 2 hours

- Self-guided Exhibit Exploration
- Lunch (30 minutes maximum)

### EcoZone

What slinks, slithers and crawls around in our own backyard? Identify creatures that are a part of the natural ecosystem and how they keep our world in balance. Come face to face with some of Florida's true native creatures and learn to identify habits and habitats.

*Florida Sunshine State Standards: Science Big Idea 1, gr.6-8; Big Idea 2, gr.6-8; Big Idea 4, gr.8; Big Idea 14, gr.6; Big Idea 15, gr.3,5,6; Big Idea 16, gr.7; Big Idea 17, gr.7; SC.912.N.1; SC.912.N.2; SC.912.N.4; SC.912.L.17; LA.A.1;LA.A.2;LA.C.2*

### EnergyZone

Can energy be created or destroyed? How much work is needed to light up a fluorescent bulb or an incandescent bulb. Experiment with energy in its various forms from light, heat and sound to motion, electricity and pressure.

*Florida Sunshine State Standards: Science Big Idea 1, gr.6-8; Big Idea 2, gr.6-8; Big Idea 3, gr.6-8; Big Idea 4, gr.8; Big Idea 8, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, gr.6,7; Big Idea 12, gr.6; Big Idea 13, gr.6; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.8; SC.912.P.10; SC.912.P.12*

### BodyZone

Discover the strength and structure of your body, your own living, breathing science lab! Test your limits, and see how your body's abilities in speed, endurance and strength compare to your classmates with exhibits that focus on the building blocks of the body.

Having trouble settling down and concentrating? Channel your thoughts, and channel your mind's electrical impulses to move a ball into your opponent's goal in MindBall.

*Florida Sunshine State Standards: Science Big Idea 1, gr.6-8; Big Idea 2, gr.6-8; Big Idea 3, gr.6-8; Big Idea 4, gr.8; Big Idea 14, gr.6; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.L.14; Health HE.A.1 HE.B.1; PE.A.1; PE.A.2; PE.B.2; PE.C.1; PE.C.2*

## ExploraZone – “Fact or Friction”

Seeing is believing, or is it? In order to understand what’s real in the world, you need to understand how the eye and brain trick you. The 35 exhibits from the Exploratorium Museum in San Francisco do just that by exploring seeing and illusions, friction and other forces and even make aspects of mathematics more understandable for your students.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 10, gr. 7; Big Idea 11, grs.6,7; Big Idea 12, gr.6; Big Idea 13, gr.6; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.10; SC.912.P.12; LA.A.1,2;LA.A.2; VA.B.1 grs.6-12; Math Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8*

## WaveZone

How does the brain interpret vibrations and turn them into what we hear? Explore the science of sound as you change your voice pitch and speed, test your tone memory or whisper across the room to give your ears a workout!

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; LA.A1.,2;LA.C.2; Math Big Idea 1, grs.6-8*

## B. WORKSHOPS – \$8 per student

Help your students discover new ways to look at the basics of science with the help of G.WIZ Staff

Schedule 2 Hours

- Inquiry-based Educational Program (30 minutes)
- Self-guided Exhibit Exploration
- Lunch (30 minutes maximum)

## 6<sup>th</sup> -12<sup>th</sup> grades - \$8 per student

### Energy Transformed

Hands-on scientific inquiry skills

Capacity: 45

Can energy be created or destroyed? Follow the path of energy as it is transformed from one form to another form. Measure this energy transformation in weather, electricity, magnetism, machines, and even humans.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.10; LA.A.1,2;LA.C.2*

## Get Charged

Hands-on scientific inquiry skills                      Capacity: 45

Become an apprentice electrical engineer and discover the properties and types of electricity. Explore the way electricity flows by performing experiments with static and current electricity. Then discover the relationships between electricity and magnetism.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.10; LA.A.1,2;LA.C.2*

## Rocks Minerals & Fossils

Hands-on scientific inquiry skills                      Capacity: 45

Join the geology team at G.WIZ and use your senses, simple tools and scientific skills to collect data on rock samples. Perform scratch and streak tests; observe the color, cleavage and crystal structure; and perform hardness and specific gravity tests on samples. Use this data to determine whether the rock is igneous, sedimentary or metamorphic and identify the predominant mineral in the rock. Then present your findings to the team.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 5, gr.8; Big Idea 6, grs.6,7; Big Idea 8, gr.8; Big Idea 9, gr.8; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.E.6; LA.A 1,2;LA.C.1,2,3;*

## CSI: G.WIZ

Hands-on scientific inquiry skills                      Capacity: 30

When a crime is discovered, what happens from start to finish? Search, observe, interview, measure, weigh, brush, lift and smell. Apply the science of forensics. What is the importance of DNA? Fingerprints? Witnesses? Discover the steps a crime scene investigator would follow.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 14, gr.6; Big Idea 16, gr.7; Big Idea 17, gr.7; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.L.14; SC.912.L.15; SC.912.L.16*

## Amazing H2O

Hands-on scientific inquiry skills                      Capacity: 45

70% of our earth is covered in it, but we can only use less than 1%. What is it? Why water of course! With demonstrations and experiments, investigate how the chemical and physical properties of this precious resource relate to the natural water cycle. You will discover

society's impact on Florida's coastal zones, including watersheds, coastal waters and the diverse eco-systems that exist in them. Learn what you can do to help keep these resources healthy.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 7, gr.6; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 17, gr.7; LA.A.1,2; LA.C.1,2,3; Social Studies Geo St.3, grs.7,8,9-12; St.5, grs.8,9-12; Math Big Idea 3, grs.6-8*

## C."G.WIZ ON THE GO" OUTREACH CLASSROOM

Bring the excitement of science to your classroom and add G.WIZ to make it fun, "the hands on" way.

### Individual Classroom Programs

- \$195 + \$100 per additional classes
- maximum 3 per day

### Get Charged

Scientific observational skills for 6th -12th grades

Capacity: 45

Discover how lightning is made by getting "charged up" with static electricity.

Demonstrations and experiments performed

with a Van de

Graaff generator help to understand this mysterious form of electricity.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.10; LA.A1,2; LA.C.1,2,3; Math Big Idea 1, grs.6-8*

### Under Pressure

Scientific observational skills for 6th -12th grades

Capacity: 45

Introduce your students to the extreme science of pressure and help them understand how pressure works. Using the air around us, we'll make this unseen force visible and challenge your students to overcome this force of nature.

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8; Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr.8; Big Idea 7, gr.6; Big Idea 8, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; Big Idea 12, gr.6; Big Idea 13, gr.6; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.8; SC.912.P.10; SC.912.P.12; LA.A1,2; LA.C1,2,3; Math Big Idea 3, grs.6-8*

## OUTREACH ASSEMBLY

Bring the excitement of a "Science Super Show" to your school.

## Group Assembly Programs

- \$395 + \$195 per additional assembly
- maximum 2 per day

## Super Science Show

Scientific observational investigative skills for K-5th grades                      Capacity: 125 +

GWIZ group assemblies are designed to inspire and educate students with amazing programs. Your students will also have the opportunity to assist with hands-on demonstrations focusing on chemistry, electricity, energy, sound, and even the air around us. Students will be surprised, it's science!

*Florida Sunshine State Standards: Science Big Idea 1, grs.6-8, Big Idea 2, grs.6-8; Big Idea 3, grs.6-8; Big Idea 4, gr. 8; Big Idea 7, gr.6; Big Idea 8, gr.8; Big Idea 9, gr.8; Big Idea 10, gr.7; Big Idea 11, grs.6,7; Big Idea 12, gr.6; Big Idea 13, gr.6; SC.912.N.1; SC.912.N.2; SC.912.N.3; SC.912.N.4; SC.912.P.8; SC.912.P.10; SC.912.P.12; LA.A.1,2; LA.C.1,2,3; Math Big Idea 1, grs.6-8; Big Idea 2, gr.6-8; Big Idea 3, grs.6-8*

**G.WIZ – The Science Museum at The Blivas Science & Technology Center  
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