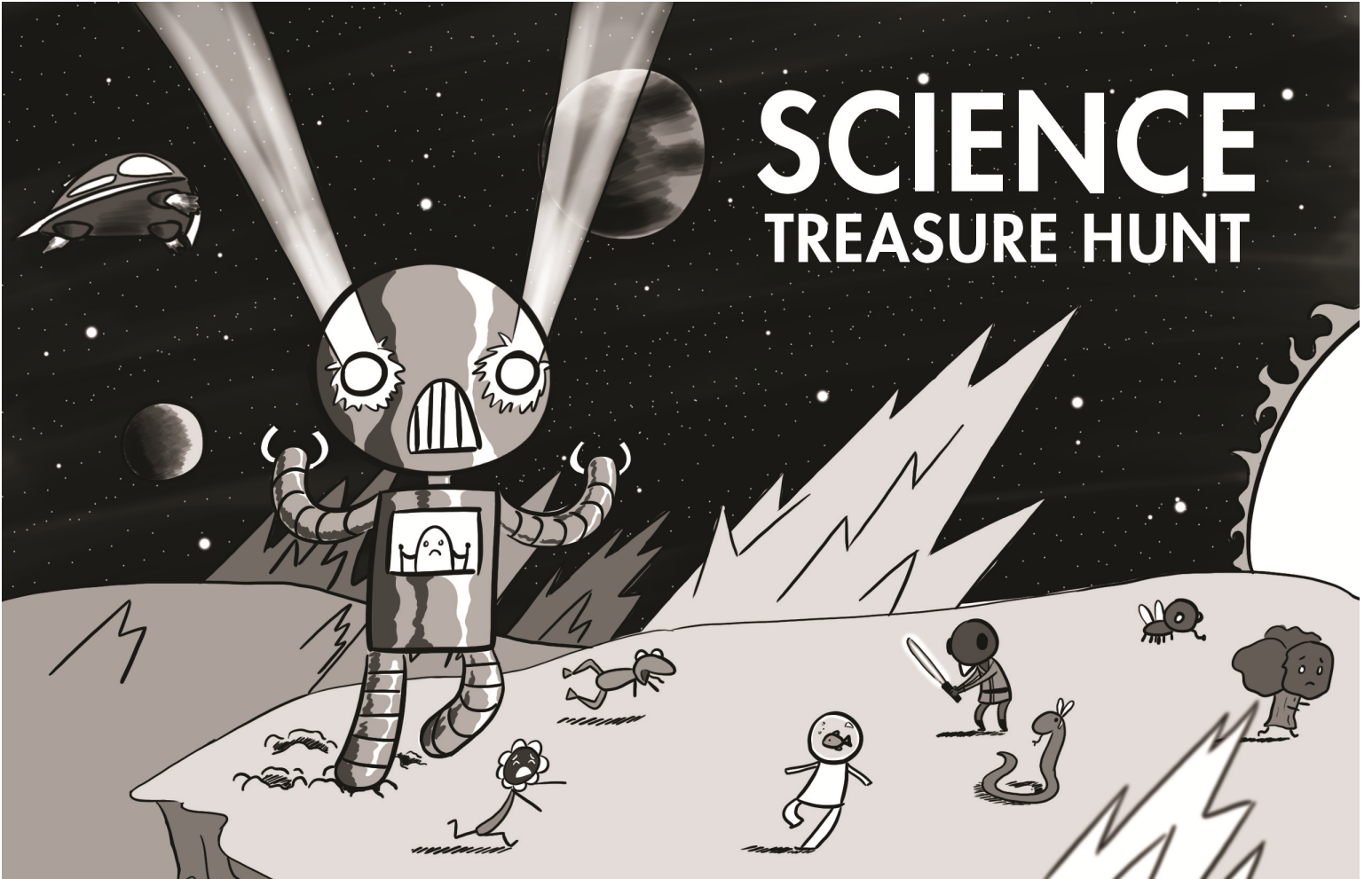


SCIENCE TREASURE HUNT



2016 Science Treasure Hunt

Thank you for participating in the 2016 Science Treasure Hunt. This year marks the 27th year of Science Treasure Hunting through a program designed to get students more involved with science and technology. Plus, the hunt gives them an opportunity to think about their own career development in science.

Mike Rucker, Chairman
Science Treasure Hunt

This Passport Belongs to:

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* New Site This Year

Rules

Official Dates:

Saturday April 16, 2016 — Monday, September 5, 2016

Sponsor:

The Peoria Academy of Science and the Peoria Riverfront Museum are the proud sponsors of the 27th Annual Science Treasure Hunt. The Treasure Hunt is a combination of family adventure and scavenger hunt focusing on science and technology facilities and resources in the Peoria area.

Entrant Requirements:

All entrants must be students between 1st grade and 8th grade on April 16, 2016

- 1. Visit at least eight (8) of the Science Sites** featured in this Science Treasure Hunt Passport with your family or friends and find the answers for the questions at each site.
- 2. Have your answers checked** by a staff person/volunteer at each site. If your answers are correct, you will **receive an official stamp or initials** on that site's page in your Science Treasure Hunt Passport.
- 3. Have the staff person/volunteer at your eighth (8th) site sign, initial, and/or stamp the certification on page C4.** You cannot be entered into the final prize drawing without this validation.
- 4. Complete eight (8) or more of the Everyday Science Experiments** with your family found on pages C2, C3, and C8.

Rules

5. Complete the Official Entry Form with the answer blanks for the Everyday Science Questions. The Official Entry Form (yellow pages) may be found in the center of the Passport on pages C4-C7.

6. Mail the Official Entry Form (yellow pages C4-C7 only) to:

Peoria Academy of Science

P.O. Box 3412, Peoria IL 61612

7. Entries must be postmarked no later than Wednesday, September 7, 2016 Only one entry per person. Entries from different members of the same family may be mailed in the same envelope.

8. One hundred (100) winners will be drawn at random from the qualifying entries. Winners will be notified by mail, email or phone and are encouraged to attend the Prize Presentation. If unable to attend the initial 100 winners may pick up their prize packet at Peoria Riverfront Museum before October 13, 2016. If a family has more than one entrant, not all entries may be selected by random drawing.

9. One (1) grand prize winner and five (5) additional prize winners will be drawn at random from the 100 initial winners at the Prize Presentation and **MUST* be present** in person at the Prize Presentation event. *Please note this change from previous years' rules.

Prize Presentation Event:

Sunday, October 2, 2016 at 2:00pm in the Peoria Riverfront Museum Auditorium (downstairs).

Prizes

One hundred (100) initial prize winners selected at random from the qualifying entries. One (1) Grand Prize winner and five (5) additional winners will be selected at random at the Prize Presentation from those initial prize winners who are present.

Prize Presentation Event

Sunday, October 2, 2016

Peoria Riverfront Museum Auditorium

Grand Prize:

A fantastic NASCO Science Catalog shopping spree worth \$500.

2nd Prize:

A wonderful NASCO Science Catalog shopping spree worth \$250.

3rd Prize:

A great NASCO Science Catalog shopping spree worth \$125.

4th, 5th & 6th Prizes:

Additional special prizes and books.

Prize Sponsors:

NASCO Science Catalog shopping sprees are provided by the Peoria Academy of Science. Additional prizes for the top six winners are provided by the following gracious Science Treasure Hunt Sites: Forest Park Nature Center, Peoria Riverfront Museum, Peoria Zoo, Wheels O' Time Museum, and Wildlife Prairie Park.



Peoria Academy of Science

Our Mission

To foster the appreciation of science, to spread scientific knowledge and to promote scientific research.

The Peoria Academy of Science was founded in 1930 by a group of Peoria professional and amateur scientists who wanted to host meetings of the Illinois State academy of Science. The group hosted the state conference the next year.

The concept of a federation of science groups was so successful that within the state it became known as the Peoria Plan. It was copied in many other communities and several colleges and universities. Today, the only two remaining in Illinois are the Chicago Academy of Science and the Peoria Academy of Science.

The current sections of the Peoria Academy of Science include:

Peoria Astronomical Society

Peoria Audubon Society

Entomology Section

Geology Section

Ichthyology Section

Central Illinois Herpetology Society

The Academy has approximately 800 members within these various disciplines.

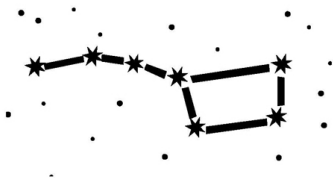
The Academy has three major projects:

The Donald Jackson Memorial Scholarship Fund,

The Science Granting Fund, and

The Science Treasure Hunt for Children.

www.peoriaacademyofscience.org



Peoria Astronomical Society

Peoria Academy of Science
P.O. Box 10111
Peoria , IL 61612-0111
309-645-2433
www.astronomical.org

Visit the Northmoor Observatory to view the sky through the 12 foot long refractor telescope!

Where:

The observatory is located on the Peoria Park District's former Donovan Golf Course, 500 feet south of the observatory parking lot, which is accessible from the 5800 block of Knoxville Avenue.

When:

On any clear Saturday evening after dark, from May 21st through October 15th.

Admission:

FREE

The heavens are within reach at the
Peoria Astronomical Society

Peoria Astronomical Society Questions

1. From which planet did we receive a special "valentine" last summer?

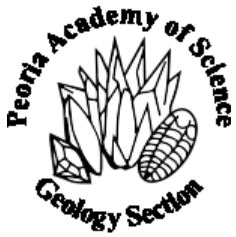
2. Only Mercury and Venus have transits of the sun that can be seen from Earth. Why is this?

3. On May 9th of this year, Mercury passes across the face of the sun as viewed from Earth. What is this type of astronomical event called? _____
4. How long will it take Mercury to move across the face of the sun? _____



Official stamp
or Initials





Geology Section Annual Show

Where:

Travelodge

4400 North Brandywine Drive, Peoria, IL 61614

When:

Saturday, August 27th 9:00am-5:00pm

Sunday, August 28th 10:00am-5:00pm

Admission:

FREE

Have your passport stamped and be amazed at the beautiful and intriguing minerals and fossils on display during this educational event. You will remember this event for years!

Meetings:

Fourth Tuesday of the month at 7:00pm at Forest Park Nature Center, Peoria Heights. The public is welcome!

Geology Section

Peoria Academy of Science

P.O. Box 10294

Peoria, IL 61612

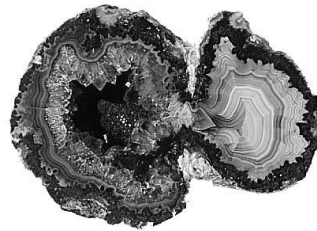
309-645-3609

www.pasgeology.com

Geology Section Questions

1. The outer shell of Illinois geodes are generally composed of what material?

2. What period is the Mazon Creek fossils from?
A. Pennsylvanian
B. Mississippian
C. Devonian
3. Besides quartz, what other mineral is often found in geodes? _____



Official stamp
or Initials





Central Illinois Herpetological Society

Peoria Academy of Science
P.O. Box 6413
Peoria, IL 61601-6413
309-682-6208
www.centralillinoisherp.com

25th Annual Reptile & Amphibian Fair

Where:

Travelodge
4400 North Brandywine Drive, Peoria, IL 61614

When:

Saturday, August 13th 10:00am-5:00pm
Sunday, August 14th noon-5:00pm

Admission:

\$4.00 per person

One child with passport admitted FREE with each paying adult.

Passport can be stamped at the Annual Fair or at any meeting of the Society. Answer the questions and then ask any volunteer for help.

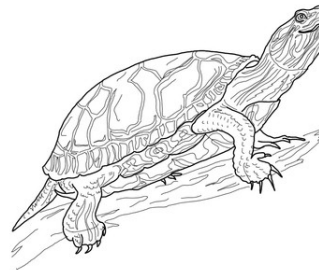
Meetings:

First Thursday of the month at 7:00pm at Forest Park Nature Center, Peoria Heights. The public is welcome!

Central Illinois Herpetological Society Questions

See signs at Annual Fair for answers or attend one of the monthly meetings.

1. Name the Illinois State Reptile? _____
2. Name the Illinois State Amphibian? _____
3. What is the name of the fungus that will probably destroy 50% or more of all amphibians on Earth within the next 20 years? _____
4. Would you like to attend one of the monthly meetings of the Central Illinois Herpetological Society? Yes No



Official stamp
or Initials





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Peoria Academy of Science
P.O. Box 6413
Peoria, IL 61601-6413
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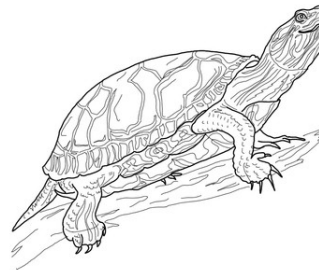
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Official stamp
or Initials





Camp Wokanda

Peoria Park District
620 East Boy Scout Road
Chillicothe, IL 61523
(309)579-2157
www.peoriaparks.org

Hours of Operation:

Dawn to Dusk

Staff usually on site Monday-Friday 9:00am-4:30pm

Saturday & Sunday Hours vary

(If not at Camp Office, there is a contact phone number on the door for anyone to call)

Directions:

To get to Camp Wokanda from Peoria, take Route 29 north and turn left on Old Galena Road just north of Route 6.

Follow this past Mossville Grade School, then turn left on Boy Scout Road and proceed to the park entrance.

Camp Wokanda is a 267 acre woodland setting including a lake, trails, dining hall, cabins, program buildings and tent camping. Since 1936, Wokanda has been building memories “ around” the glow and warmth of a campfire. Our cabins offer groups with excellent base camp to explore the natural beauty of Central Illinois’ wooded bluffs. In the process, campers learn a little bit more about their role in the natural world. Get back to nature! We offer hiking, canoeing, cabin and tent rentals, special events, facility rentals, educational classes and more!

Plan a PADDLE PARTY today for only \$10 per canoe rental!

Camp Wokanda Questions

1. Each May, the Peoria Park District holds a _____ Challenge to which facility can pull the most of this invasive species. It was introduced to Illinois by settlers as a edible salad option.
2. What is the name of the trail that runs through Camp Wokanda to Detweiller Park?

3. Approximately how many miles is the Trail mentioned above? _____
4. A _____ is an introduced fire that mimics the ancient fires that used to burn through the forests of Illinois.

This is an “Honor Site”. If no staff person is available an adult who has accompanied the student may initial.

  "Like" us on www.facebook.com/CampWokanda

or Initials



Caterpillar Visitors Center

110 SW Washington Street
Peoria, IL 61602
(309)675-0606
www.visitcaterpillar.com

Hours:

Monday-Saturday
10:00am-5:00pm

Last ticket sale and entry is at 3:30pm

Admission:

General Admission: \$7.00

Seniors (55+): \$6.00

Active Military and Veterans: \$6.00

Military(55+): \$5.00

Children 12 and under accompanied by an adult:

FREE

(Limit 4 per 1 adult ticket)

\$1.00 off admission

Limit one per person. Coupon Code: Science

Caterpillar Visitor Center Questions

1. How many gallons of “Caterpillar yellow” paint does it take to cover the 797F Mining Truck?

2. What is one of the most important ergonomic features in the design of the Cat machine cab?

3. Cat powered pumps are capable of draining an Olympic-size swimming pool in less than _____.
(Hint: Industrial Engines and Power Display)
4. Name two pieces of Cat equipment on display at the Caterpillar Visitor Center.



Official stamp
or Initials





Fon du Lac Farm Park

305 Neumann Drive
 East Peoria, IL 61611
 309-694-2195

info@fondulacpark.com

Spring Hours:

April 11th - May 27th

Monday - Friday 9:00am-3:00pm (Closed Weekends)

Summer Hours:

May 28th - September 5th

Tuesday - Sunday 9:00am-3:00pm

(Closed Mondays except for Memorial Day,
 4th of July & Labor Day)

Admission:

Adults \$3.00; Children 1-15 \$2.50

One Child with passport admitted FREE with each
 paying adult.

Since 1981 the Farm Park has been a treasured destination for school children and families. The park offers a variety of outdoor activities that a child would have experienced living on a farm in the early 1920's. Visit the gift store and the concession stand.

Handicap accessible.

Fon du Lac Farm Park Questions

Monarch Butterflies are beautiful. Their brilliant orange and black wings make them the most widely recognized butterfly in the garden. However, the monarch butterfly is slowly disappearing and needs our help to flourish.

1. What is the main reason monarchs are disappearing? _____
2. Name the only food monarch caterpillars eat.

3. What is the most important thing you can do to help save the monarch butterfly?

4. How should you plant your garden?

5. What should you never use in your garden?

6. Name the four stages of a butterfly's life.
 _____ , _____ ,

 & _____

Official stamp
 or Initials





Forest Park Nature Center

5809 Forest Park Drive
Peoria Heights, IL 61616
(309)686-3360
www.peoriaparks.org

Hours:

Monday-Saturday 9:00am-5:00pm
Sunday 1:00pm-5:00pm

Admission:

FREE

Enjoy 7 miles of hiking trails, 540 acres of dedicated Illinois State Nature Preserve, Interpretive Center, interactive exhibits and the Trailhead Nature Store. Pick up a copy of our latest newsletter, *Tracks and Trails*, for all the latest nature news and program information.

Plan a Woodland Birthday Party!

Forest Park Nature Center is a great place to have your Birthday Party. A naturalist will lead your group on an exciting hike to explore the forest! You then have exclusive use of our woodland picnic area to open presents and enjoy refreshments.

The birthday girl or boy will receive a \$2.00 gift certificate from the Trailhead Nature Store.

Invitations are provided.

Birthday Party packages start at \$60.00.

Call and schedule yours today!

Forest Park Nature Center Questions

1. What is one way you can help protect our sanctuary? *(Found on trail entrance sign behind Nature Center)*

2. What was one animal hunted by people of the Woodland era in Illinois? *(Found in main room of Nature Center)*

3. What is the top part of a turtle's shell called? *(Found in indoor animal area)*

4. Which prairie plant is toxic to livestock? *(Found on sign in the prairie planting on Valley Trail)*



www.facebook.com/ForestParkNatureCenter

Official stamp
or Initials





Giant Oak Park
 426 West High Street
 Peoria, IL 61605
 www.peoriaparks.org

Hours:
 Monday-Sunday
 Dawn to Dusk

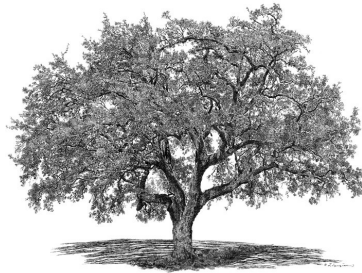
Admission:
 FREE

Giant Oak Park is one of the Peoria Park Districts smallest parks; it has a single tree and a giant name.

It is home to a large bur oak tree, believed to be at least 300 years old.

Its branches span at least 100 feet and the trunk is 13 feet in circumference.

This is an honor site. There is no staff to stamp or sign the passport page. An adult accompanying the child is to initial the page noting the date of your visit.



Giant Oak Park Questions

1. What is the local name given to this giant tree?

2. What is the scientific name of the bur oak?

3. Some Scientist believe the tree may have sprouted as early as_____.
4. What are the dimensions of this tree: _____feet tall, _____feet spread, _____feet trunk diameter.
5. What family saved the bur oak in the 1930's?

6. All oak species are identified by their seed. What is the seed of all oak trees called?

Date of Visit: _____



Official stamp
or Initials



2016 Science Treasure Hunt Important Dates

Start Date:

Saturday, April 16, 2016

Final Date:

Monday September 5, 2016

Final Submission Postmark Date:

Wednesday, September 7, 2016

Presentation Event:

Sunday, October 2, 2016

An explanation for each Everyday Science Experiment will be posted, after the contest ends, on the Peoria Academy of Science website:
www.peoriaacademyofscience.org

2016 Science Treasure Hunt Everyday Science Experiments

Remember to answer the questions on page C5 & C6

1. Green Pennies

Supplies Needed: Paper towel, four or five pennies, vinegar and saucer.

What to do: Fold the paper towel in half and fold again into a square. Place the paper towel in the saucer, Pour enough vinegar onto the paper towel to wet it. Place the pennies on the paper towel and fold the towel over onto the pennies. Wait 24 hours. Observe what happens

2. Taste Test

(Adult assistance required – use of a kitchen knife)

Supplies Needed: A peeled apple, a peeled potato, a kitchen knife.

What to do: Cut a small piece from both the apple and the potato of the same shape and size. Squeeze your nose tightly closed and close your eyes. Taste one piece, then the others. Try to guess which was which.

3. Swiping from the Coin Tower

Supplies Needed: About 8 coins of the same size (quarters and nickels work best), a dinner knife

What to do: Stack the coins in an even and straight stack. Use the dinner knife to sweep the bottom coin from the stack. See how many you coins you can sweep from the stack before it collapses.

4. Making Waves – Transferring Energy from Air to Water

Supplies Needed: A large shallow pan, tap water, a drinking straw

What to do: Fill the pan half full with water. Hold one end of the straw near the surface of the water. Blow into the straw. Blow gently, then harder. Observe the waves as you blow gentle or hard.

5. Skittering colors

Supplies Needed: Food coloring, lukewarm milk, several plates or shallow bowls, dishwashing detergent, several Q-tip cotton swabs.

What to do: Pour some of the lukewarm milk (whole milk works best) into several of the plates to a depth of about 2 cm. (about one inch). Place several drops of various food coloring in the center of the milk. Dip a Q-tip into the dishwashing detergent. Then dip the Q-tip into the center of the of the food coloring patch on the milk. Observe what happens.

6. Checking Fingerprints

Supplies Needed: A tube of lipstick, a sheet of paper, a magnifying glass (if available), hand soap to remove the lipstick.

What to do: A. Lightly rub a thin coating of lipstick onto the tip of the forefinger of each of your hands. Press your forefingers onto the paper. Examine your fingerprints.

7. Dunking a Tissue

Supplies Needed: A sink or basin filled with water, a clear drinking glass, paper tissues.

What to do: Crumple several sheets of tissue and place them in the bottom of the glass. Hold the glass upside down and plunge it straight down into the water without tipping it. Then pull the glass straight up without tipping.

2015 Science Treasure Hunt Official Entry Form

(Please Print Neatly)

Participant's Name _____

Address _____

City _____ **State** _____ **Zip** _____

E-Mail (for notification only) _____

Families should designate a primary contact person below:
Phone _____

Certification: I have checked the pages in this Science Treasure Hunt Passport and verify that this book contains the site stamps or initials from a minimum of eight (8) sites.

Signature _____

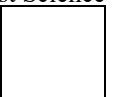
At Science Site _____

**Mail to: Peoria Academy of Science
P.O. Box 3412
Peoria, IL 61612**

Must be post-marked no later than Wednesday, September 7, 2016.

Do not mail in entire passport, just the center yellow page.

Stamp or
initials of your
last Science



2016 Science Treasure Hunt Official Answer Form

Please check one for each question

1. Green Pennies

- The pennies turned green
- The pennies did not turn green

2. Taste Test

- I could easily tell the difference
- Both tasted the same with my nose pinched shut

3. Swinging from the Coin tower

- I was able to sweep ____ coins before the stack collapsed.
- The stack collapsed on my first try

4. Making Waves– Transferring Energy from Air to Water

- The waves were higher as I blew harder
- The waves were the same regardless how hard I blew

5. Skittering Colors

- A. Nothing happened
- The food coloring quickly spread away from the Q-tip
- B. Did all the colors react in the same way? Yes No

6. Checking Fingerprints

A. Are your fingerprints the same? Yes No

B. Most fingerprints are classified as either “Arch” or “Loop”

The forefinger of my left hand is Arch Loop

The forefinger of my right hand is Arch Loop

7. Dunking a Tissue

- The tissue was soaked
- The tissue remained dry

8. Cool It!

A. The temperature of the water in the two bottles remained the same Yes No

B. Which water bottle had the cooler water

- The unwrapped bottle
- The wrapped bottle

9. Change H_2O_2 into H_2O

- Nothing happened
- Tiny bubbles came from the potato

10. Drop that Egg

The egg shell cracked at

- Three feet
- Four feet
- Five feet
- The egg shell did not crack
- After the experiment I ate the egg

2016 Science Treasure Hunt Sites

Check all the sites you visited this year

- Astronomy Section
- Geology Section
- Herpetology Section
- Ichthyology Section
- Camp Wokanda
- Caterpillar Visitor Center
- Fon-du-Lac Farm Park
- Forest Park Nature Center
- Illinois Air National Guard
- Jake Wolf Fish Hatchery
- Luthy Botanical Gardens
- Peoria Area First Robotics Teams
- Peoria Playhouse Children's Museum
- Peoria Riverfront Museum
- Peoria Zoo
- Sugar Grove Nature Center
- United States Coast Guard
- University of Illinois School of Medicine at Peoria
- Wheels O' Time Museum
- Wildlife Prairie Park

Circle your two (2) favorite sites.

8. Cool it!

Supplies needed: 2 plastic drinking bottles (the bottles should be the same size); paper towels; room temperature tap water; thermometer (optional); a windy day (or use an electric fan if it's not windy)

What to Do: Fill both bottles with water. Wrap one of the bottles in two layers of paper towels. Wet the paper with water. Stand the two bottles next to each other. Put them outside if it's a windy day. If it's not windy, put the fan on next to them. After 20 minutes, take a sip of water from each bottle. Check the temperature every five minutes. You can guess the temperature difference between the two bottles by tasting the water, or use a thermometer to be accurate.

9. Change H_2O_2 into H_2O (Hydrogen Peroxide into Water)

Supplies Needed: Hydrogen peroxide, raw potato, cup or small glass.

What to do: Pour about an inch of hydrogen peroxide in to the glass. Take a small slice of the potato and place it in the cup. Observe the results.

10. Drop that egg – hopefully without breaking it.

Supplies Needed: 1 small Ziploc plastic bag, 1 large Ziploc plastic bag, a hardboiled egg, box of Rice Krispies.

What to do: Put the egg in the small bag. Use the Krispies to encase the egg in the center of the bag. Stuff that bag full and get some good padding going! Place the small bag in the large bag. Fill the large bag with Krispies making certain that the small bag is well within the middle and protected on all sides by the Krispies. Now drop the large bag from a height of three feet, then four feet, then five feet: checking each time to see if the egg shell had been cracked.



Illinois Air National Guard

182nd Airlift Wing
2416 South Falcon Blvd.
Peoria, IL 61607
(309)633-5118

Hours:

Must phone ahead to schedule a tour of the base.
Tours are scheduled from 9:00am-1:00pm
Tuesday and Thursday only on a first come first re-
served basis.
Please call 309-633-5118 to schedule a time.

Admission:

Tours are FREE of charge

Tours:

Tours consist of Aircrew Flight Equipment ship, Fire House, Aircraft Maintenance and the C-130 Aircraft.



Illinois Air National Guard Questions

1. What is the mission of the C-130 Hercules aircraft?

2. Name three ways you can purify water in a survival situation.

3. What are three things necessary to have fire?
_____, _____, _____
4. Would you like to join the Air National Guard someday? ___Yes ___No



Official stamp
or Initials





Jake Wolf Fish Hatchery

25410 Fish Hatchery Road
Topeka, IL 61567
309-968-7531
steve.krueger@illinois.gov

Hours:

8:00am-3:30pm

Visitor Center is open seven days a week,
except for Illinois state holidays.

No need to phone, unless a guided tour is desired.

Admission:

FREE

Directions:

From Peoria area, take Illinois Route 29 south through
Pekin, turn right on the Manito blacktop into Manito.

Take the first right past the Country Companies building
onto Country Road 2500 North.

Follow 2500 North for five miles and turn right at the Jake
Wolf sign. Follow the lane to the Jake Wolf Fish Hatchery.

For questions regarding the Treasure Hunt, please inquire at
the office located in the back of the Visitor Center.

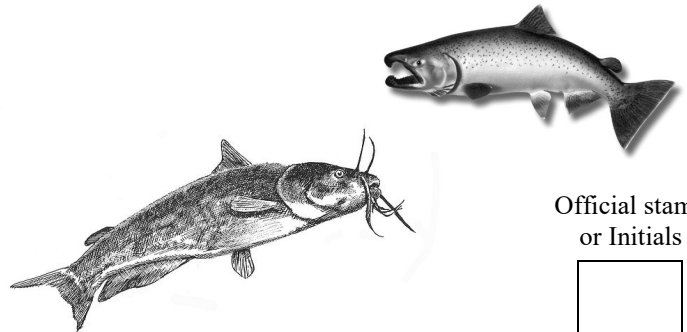
Jake Wolf Fish Hatchery Questions

1. What organ does a fish have that allows it to breathe under water?

2. What fish is named after the colorful arch seen in the sky after a rainstorm?

3. How much did the State Record Blue Catfish caught in 2005 weigh?

4. How many days do Chinook Salmon eggs stay in incubation?





**LUTHY
BOTANICAL
GARDEN**

Luthy Botanical Garden

2520 N. Prospect Road
Peoria, IL 61603
309-681-3506

Hours:

10:00am – 5:00pm Daily

Admission:

No admission fee.

Contributions are welcomed – and needed



2016 Special Events:

Open Memorial Day– May 30th

Star Wars Day, Father’s Day– June 19th

(Fathers & Grandfathers are free)

Super Hero Weekend- July 30th-31st

Open Labor Day– September 5th

Hogwarts Botanical Garden

Chrysanthemum Show– October 6th –November 6th

Hall-Zoo-ween- October 7th-8th

Poinsettia Show- November 18th-December 31st

Candle Light Walks– November 18th-December 23

(6pm-9pm, Friday & Saturday ONLY)

Check out our website for more information:

www.peoriaparks.org/Luthy-botanical-garden

Luthy Botanical Garden Questions

1. Within the Conservatory: Find and name two fruit bearing plants (*There are four*).

2. Within the Conservatory there are several signs concerning the importance of rainforest. Find one that answers this question: Why are rainforests being destroyed?

3. Near the west fence (along Prospect Road) and to the left of the gazebo is a tree that sports leaves of three different shapes.

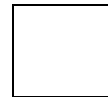
A. Can you find a leaf of each shape? __Yes __No

B. What kind of tree is it? _____

C. What tasty drink can be made from the roots of this plant if the roots are dug when the plant is small? _____

This is an “Honor Site”. If a Luthy staff person is available you may ask that person to initial this passport page. If no staff person is available an adult who has accompanied the student may initial.

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Peoria Area *FIRST* Robotics Teams

www.robotcasserole.org
www.usfirst.org

RoboRumble

Where:

Peoria Riverfront Museum
222 SW Water Street, Peoria, IL 61602

When:

Saturday, June 11th 12:00pm-4:00pm

Robomania

Where:

Peoria Public Library– North Branch
3001 W Grand Parkway, Peoria, IL 61615

When:

Saturday, June 25th 12:00pm-4:00pm

Sponsored by Peoria Area *FIRST* Robotics Teams

Admission: Free

Come join several area robotics teams at the Peoria Riverfront Museum & the Peoria Public Library - North Branch for robot demonstrations, interactive displays, Lego Mindstorms robots, and science and technology displays.

Learn more at www.robotcasserole.org and www.usfirst.org

Peoria Area *FIRST* Robotics Teams Questions

1. What does the acronym *FIRST* stand for?
F _____
I _____
R _____
S _____
T _____
2. _____ countries participate in *FIRST* robotics programs and there are _____ teams world-wide.
3. What was the name of the 2016 *FIRST* Robotics competition?

4. How can a robot “see” if it doesn’t have a camera?



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A Peoria Park District Facility

Peoria PlayHouse Children's Museum

2218 N Prospect Rd
Peoria, IL 61603
(309)323-6900
www.peoriaplayhouse.org

Hours:

Monday-Saturday
9:00am-4:00pm
Sunday
12:00pm-4:00pm

Admission:

General Admission: \$8.00
Children under 1: FREE



Peoria PlayHouse Children's Museum Questions

1. Spend some time exploring the PlayHouse. What is one scientific field you see represented at the museum?

2. Find a Playologist (a Museum Staff member) and ask them to show you the Bernoulli Blower. Spend some time learning about Bernoulli's Principle and testing the machine. What is the maximum number of balls you can get to float in the blower?

3. Head to the Sci-Lab and use the stethoscope to listen to various creatures' heart beats. Which animal has the fastest heart beat?



 "Like" us on
 www.facebook.com/peoriaplayhouse

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PEORIA
RIVERFRONT
MUSEUM

Peoria Riverfront Museum

222 SW Washington Street
Peoria, IL 61602
309-686-7000

Hours:

Through May 29th
Tuesday-Saturday 10am-5pm • Sunday Noon-5pm
May 30th through September 5th
Monday-Friday 10am-5pm
Saturday 10am-7pm • Sunday Noon-5pm

Admission:

Members- FREE
Non-members

Adults (18-59) \$11.00 • Children (3-17) \$9.00
Seniors (60+) & Students (with college ID) \$10.00
There is an additional charge for special exhibitions.
One child with passport admitted free with each paying adult (includes special exhibitions).

Visit Peoria’s past in *The Street*, explore the *Illinois River Encounter*, and engage young minds in *Discovery Worlds*. Enjoy art exhibits in our *International Gallery* and *Folk Art Gallery*. Challenge yourself in the *Peak Performance Center*. Experience the *Giant Screen Theater* on a screen that’s five stories tall and seven stories wide, and get a glimpse into infinity and beyond in the *Dome Planetarium*. There’s something for everyone at Peoria Riverfront Museum.

Peoria Riverfront Museum Questions

1. Visit the hunting display in the Illinois River gallery and check out the “Duck, Duck, Goose” Kiosk. Find the Canada Goose and learn about its migratory habits. Where do Canada Geese return to when they are ready to nest and hatch their eggs?

2. Visit the fish tank in the Illinois River gallery. Find the spotted gar and read the label about this ancient fish that is native to our river. What makes up the spotted gar’s diet?

3. Visit the Education Garden on the lower level of the museum by following the sidewalk on Liberty Street to the stepping stones leading to the fenced-in garden. Read the sign and answer this question. Why is it good to have native plants in a garden?

4. Visit the Dome Planetarium lobby and read about the Orion Nebula. Why are brown dwarfs sometimes called “failed stars”?

For a full list of museum hours, show schedules, and admission prices, visit our website:

www.PeoriaRiverfrontMuseum.org



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Peoria Zoo

2320 North Prospect Road
Peoria, IL 61603
309-686-3365
www.peoriazoo.org

Mission:

To create connections that inspire an appreciation for the natural world.

Hours:

Daily 10:00am-5:00pm
Gate closes at 4:30pm

Admission:

\$9.00 adults; \$6.00 Children (2-12)
\$8.00 Seniors/Active Military
Members FREE

Stay in Touch:

Become our friend on Facebook
Visit www.peoriazoo.org
Check out our Youtube page at
www.youtube.com/peoriazoo



Peoria Zoo Questions

Look for Science Treasure Hunt on signs to help find your answers!

1. How far underground can a Three-banded armadillo smell?

2. Males of this bird species build nests for females. Each female decides whether or not its acceptable based on the quality of the nest.

3. This species found in China and along the eastern Himalayas in Asia are extremely agile and can jump as high as six feet.

What's New at the Zoo?

Memorial Day through Labor Day

Daily Keeper Chats

Zoo camp starts June 6th

Grades K-8 Register Now!

Call 681-3559 for details



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SUGAR GROVE
NATURE CENTER
 IN FUNKS GROVE, ILLINOIS

**Sugar Grove
 Nature Center**
 4532 N 725 East Road
 McLean, IL 61754
 309-874-2174

Hours:

Tuesday-Friday 9:00am-5:00pm

Saturday 10:00am-3:00pm

Sunday Noon-4:00pm

Grounds, Trails, and Imagination Grove
 open daily from dawn until dusk
 See our website for winter hours

Admission:

FREE

*Groups of 10 or more required to make a reservation
 and pay a nominal fee.*

In addition to our Nature Center, 7 miles of trails, and
 Imagination Grove (our nature play area), we also
 offer a wide variety of programs throughout the year
 for all ages.

For more information and directions visit:

www.sugargrovenaturecenter.org

(Do not use Mapquest since it is incorrect)

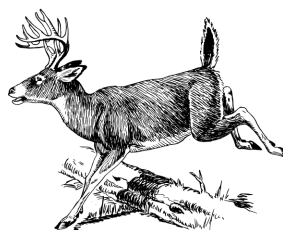


Sugar Grove Nature Center Questions

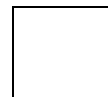
1. Go over the Covered Bridge to Imagination Grove, where you can tromp in the creek, dig to China, fly on the zip line, and have more nature-related fun! How many steps go up the climbing tree?

2. Inside the Nature Center, you'll find lots to touch, see, and do! Name three different animals you see in or around the Nature Center.

3. Past the Nature Center, there is a white building that looks like a barn. This is the Corn Crib. Search the side with rocking chairs for a box marked Peoria Academy of Science. Use the combination 2-4-6 to open the lock. Inside the box you will find a stamp for this passport page.



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U.S. Coast Guard

Marine Safety Detachment Peoria
97 Conference Center Drive
East Peoria, IL 61611
309-694-7779

Hours:

You **MUST** phone ahead for reservations.
Reservations are taken 9:00am-2:00pm
Please call 309-694-7779 for reservations.

Tour Dates:

July 21-22nd and August 18-19th
9:00am-1:00pm

Admission:

FREE

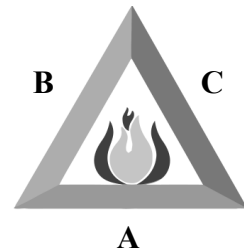


U.S. Coast Guard Questions

1. What piece of equipment is used to make the boat engines go forward and reverse?

2. The Coast Guard continuously monitors VHF radio Channel _____ for distress calls.
3. What happens when oil spills in the water?
A. It sinks to the bottom
B. It mixes with the water
C. It floats on top of the water
4. The density of oil is _____ the density of water.
A. less than (<)
B. equal to (=)
C. greater than (>)
5. What are the three sides that make up the Fire Triangle?

- A. _____
B. _____
C. _____



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**University of Illinois
College of Medicine at Peoria**

UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE AT PEORIA

One Illini Drive
Peoria, IL 61605
309-671-8000

Hours:

Monday-Friday 9:00am-5:00pm
Saturday Noon-5:00pm

Admission:

FREE

Directions:

The College of Medicine is located in downtown Peoria near Main Street and Kumpf Boulevard, visitor parking costs \$1. Enter the building with the large "sail". Science Treasure Hunt participants will find answers to their questions in the UIC Library of Health Sciences on the second floor.

The University of Illinois College of Medicine at Peoria (UICOMP) is one of four campuses that make up one of the largest public medical schools in the U.S., educating about 150 students annually and offering 20 graduate medical training programs.

UICOMP is home to the cutting edge Cancer Research Center, the Library of Health Sciences, and UIC College of Nursing Peoria Program. UICOMP also is a partner in the Jump Trading Simulation and Education Center.

U of I College of Medicine Questions

1. Dr. Lasley has studied the effect of lead on which body part?

2. Name one job that a toxicologist might do.

3. Besides old paint, what is another possible source of lead exposure?

4. Name an everyday chemical that can be good in small amounts but toxic if you eat or drink too much of it.

For more information, please visit online at:
peoria.medicine.uic.edu

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Wheels O' Time Museum

1710 West Woodside Drive
Dunlap, IL 61525
309-243-9020
www.wheelsotime.org
wotmuseum@aol.com

Hours:

May through October

Wednesday Through Sunday Noon-5:00pm

Opens May 1st

Admission:

Adults: \$7.00 (\$6.00 for groups of 20 or more)

Children 3-11: \$3.50 (\$3.00 for groups of 20 or more)

Children under 3: FREE

One Child with passport admitted FREE with each paying adult

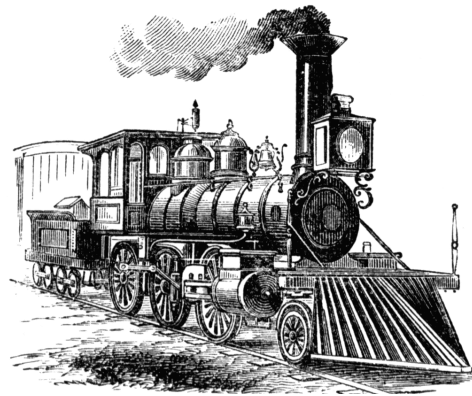
**Take an exciting journey into history at the
Wheels O' Time Museum!**

Wheels O' Time Museum Questions

1. How did the old time railroad engineer get his messages? (*Look in the caboose*)

2. What provided the power for the vacuum cleaner in grandma's kitchen?

3. What material when heated turns into steam to power steam engines? (*Look in Main Building Steam Room*)



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An adventure awaits™

Wildlife Prairie Park

3826 N Taylor Road
Hanna City, IL 61636
309-676-0998

Hours:

Memorial Day through Labor Day

9:00am-6:30pm

Jan 2 through May 29 & Sept 6 through Dec 30

9:00am-4:30pm

Admission:

Adults: \$9.00

Children 3-12: \$6.00

2 & under: FREE

Members- FREE

One child with passport admitted FREE with a paying adult

Visit our website

www.wildlifeprairiepark.org



Like us on

Facebook

www.facebook.com/wildlifeprairiepark

Wildlife Prairie Park Questions

Passports can be stamped at the Visitor Center, Adventure Store or Ticket Gate

1. What is it called when an adult amphibian retains juvenile characteristics?

2. How much can an elk antler grow each day?

3. How far away can a Silver Fox hear a squeaking mouse?

4. What is it called when a butterfly breaks out of its chrysalis?

2016 Special Dates

May 7th: National Train Day

May 8th: Mothers Day at the Park

June 13-17th: Day Camp*

July 11th-15th: Day Camp*

July 16th: Pioneer Days

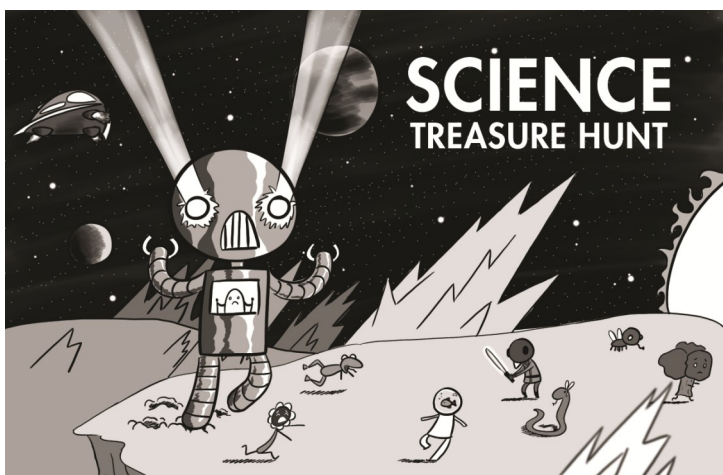
July 18th-22nd: Day Camp*

* Requires advance registration



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About the cover artist...

Illustrator, Shane Mabus is a professional Graphic Designer. This is the eighth year Shane has donated his whimsical and thought provoking drawing to the Peoria Academy of Science.

shanemabus@hotmail.com

Your Gift is Welcome and Needed

The Peoria Treasure Hunt is supported entirely by contributions. All funds go toward the purchase of prizes. If you would like to help keep this annual event going, please mail a tax deductible donation to:

**Peoria Academy of Science
P.O. Box 3412
Peoria, Illinois 61612**

*Peoria Academy of Science
since 1930*