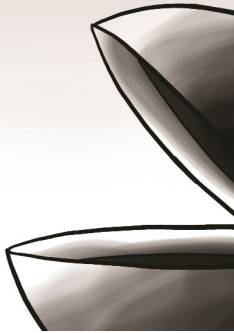
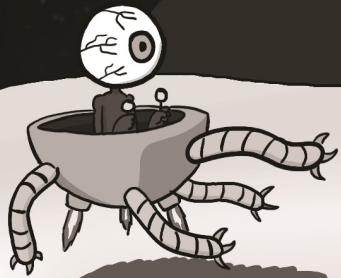


# SCIENCE TREASURE HUNT

2019



# 2019

## Science Treasure Hunt

Thank you for participating in the 2019 Science Treasure Hunt. This year marks the 30th year of Science Treasure Hunting through a program designed to get students more involved with science and technology. Plus, the hunt gives you an opportunity to think about developing an interest in science as a career.

Mike Rucker, Chairman  
Science Treasure Hunt

### This Passport Belongs to:

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\* New Site This Year

## Rules

### Official Dates:

Saturday April 13, 2019 — Monday, September 2, 2019

### Sponsor:

The Peoria Academy of Science and the Peoria Riverfront Museum are the proud sponsors of the 30th 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 13, 2019

**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. Some sites have no volunteer.

**3. Complete eight (8) or more of the Everyday Science Experiments** with your family found on pages C2, C3, and C8.

**4. 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.

## Rules

**5. Mail the Official Entry Form** (yellow pages C4-C7 only) to:  
Peoria Academy of Science  
P.O. Box 3412,  
Peoria IL 61612

**6. Entries must be postmarked no later than Wednesday, September 4, 2019** Only one entry per person. Entries from different members of the same family may be mailed in the same envelope.

**7. 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 6, 2019**. If a family has more than one entrant, not all entries may be selected by random drawing.

**8. 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.

### Prize Presentation Event:

**Sunday, September 29th 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, September 29, 2pm**

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 PlayHouse Children's Museum, 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 area 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.

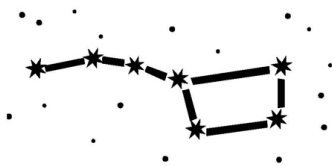
The Academy has three major projects:

**The Donald Jackson Memorial Scholarship Fund,**

**The Science Granting Fund, and**

**The Science Treasure Hunt for Children.**

**[www.peoriaacademyofscience.org](http://www.peoriaacademyofscience.org)**



**Peoria Astronomical Society**

Peoria Academy of Science  
P.O. Box 10111  
Peoria , IL 61612-0111  
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 11th through October 19th.

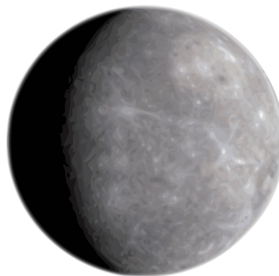
**Admission:**

FREE

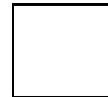
The heavens are within reach at the  
**Peoria Astronomical Society**

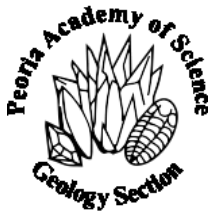
**Peoria Astronomical Society Questions**

1. What is a “transit” in Astronomy?  
\_\_\_\_\_
2. When will Mercury do a transit across the Sun in 2019?  
\_\_\_\_\_
3. When will the next Mercury transit take place after 2019?  
\_\_\_\_\_
4. How long will it take Mercury to transit the Sun in 2019?  
\_\_\_\_\_



Official stamp  
or Initials





### Geology Section

Peoria Academy of Science  
P.O. Box 10294  
Peoria, IL 61612  
309-645-3609  
www.pasgeology.com

## Geology Section Annual Show

### Where:

EastSide Centre

1 EastSide Drive, East Peoria, IL 61611

### When:

Saturday, August 24th 9:00am-5:00pm

Sunday, August 25th 10:00am-5:00pm

### Admission:

FREE

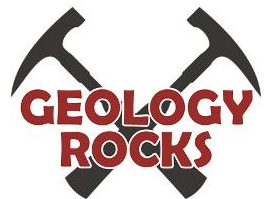
Have your passport stamped and be amazed at the beautiful and intriguing minerals and fossils on display during this educational event. You will remember this event for years!

### Meetings:

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

## Geology Section Questions

1. What mineral at the activity is magnetic?  
\_\_\_\_\_
2. What mineral at the activity is the softest?  
\_\_\_\_\_
3. Name the two minerals at the activity which have a dark streak.  
\_\_\_\_\_  
\_\_\_\_\_
4. What is the Illinois State Mineral?  
\_\_\_\_\_



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or Initials





**Advanced Medical Transport**

1718 North Sterling Ave  
Peoria, IL 61604  
(800)457-1143  
www.amtci.org

**Hours:**

Monday-Friday 8:30am-4:30pm

**Admission:**

FREE

Visitors can enter through the front doors and see the questions and answers on a video board.

Advanced Medical Transport (AMT) is the premier provider of emergency and scheduled ambulance services in Central and Western Illinois, as well as parts of Iowa. AMT is a private, not-for-profit organization operated for community benefit and governed by a Board of Directors.

**MISSION**

"To deliver consistently outstanding, value-based health and community care."

**VISION**

"To be the regional provider of choice for emergency medical and healthcare transportation services."

**VALUES**

Compassionate, Accountable, Respectful, Ethical, Sustainable

**Advanced Medical Transport Questions**

1. What is "AMT" ?

---

---

2. How many ambulances does AMT have?

---

3. How many calls per year does AMT receive?

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Learn more about Advanced Medical Transport by visiting their website: [www.amtci.org](http://www.amtci.org)



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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-3:30pm

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 1937, 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 fishing, hiking, canoeing, cabin and tent site rentals, special events, venue rentals, educational classes, Scout badges and more!

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

### Camp Wokanda Questions

1. The Illinois River Bluff Trail starts behind Blackfeet Cabin, then you will pass Illini campsite on your way to Delaware campsite. When you cross over the wooden bridge, what did you learn from the information board there?

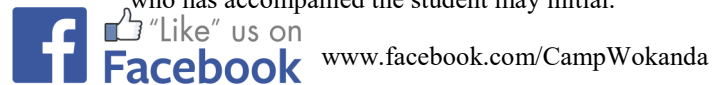
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2. The Nature Lab has a lot of additions and improvements around it. Can you name the habitat structure that sits beside it?

---

3. There is a new poster display board at Davis Lake. What did you learn from it today?

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



Show your child's 2019 passport and get 25% off of a rental at Camp Wokanda!  
Offer valid through 3/1/2020  
One coupon per customer per season.  
\*\*Not applicable to already discounted rates, venue rentals or entire camp rentals.\*\*

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**Doug Oberhelman  
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  
Expires 10/1/2019

**Caterpillar Visitors Center Questions**

1. What two companies came together to form Caterpillar Tractor Company?  
\_\_\_\_\_ and \_\_\_\_\_
2. Caterpillar equipment helped build the \_\_\_\_\_  
\_\_\_\_\_ to control floods, provide irrigation water and produce hydroelectric power for 3 states in the 1930s.
3. In what year did Caterpillar start using computer simulation for designing machines? \_\_\_\_\_
4. When did Caterpillar start using Immersive Visualization Technology (virtual reality)?  
\_\_\_\_\_
5. What are Caterpillar's five Values In Action?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Official stamp  
or Initials





**Chillicothe Park District**  
**Coal Hollow Park**  
 22004 N Yankee Lane.  
 Chillicothe, IL 61523  
 309-247-3409  
[www.chillicotheParkDistrict.org](http://www.chillicotheParkDistrict.org)

**Visit any of our unique facilities, we have something for everyone!**

- Shore Acres Park- 100 Park Blvd. Chillicothe
- Shore Acres Pool (Open June - Early Aug.)- 100 Park Blvd. Chillicothe
- Santa Fe Park- 1400 N Benedict St, Chillicothe
- Chillicothe Skate Park- 434 W Moffitt St, Chillicothe
- Coal Hollow Park- 22004 N Yankee Ln, Chillicothe
- Nellie Jackson Park- 14010 N River Beach Dr, Chillicothe
- Rome Youth Athletic Fields- 3rd Street, Rome
- Walnut Dog Park- 14401 N River Beach Dr, Chillicothe
- Stone Water Park- 11107 N Granite St, Dunlap

### Coal Hollow Park Questions

Correspond the numbered tree tag to the species it represents along the Savanna Trail at Coal Hollow Park.

1. Easter Black Oak (*Quercus celutina*) \_\_\_\_\_
2. Bur Oak (*Quercus macrocarpa*) \_\_\_\_\_
3. Hackberry (*Celtis occidentalis*) \_\_\_\_\_
4. Red Oak (*Quercus rubra*) \_\_\_\_\_
5. Shagbark Hickory (*Carya ovata*) \_\_\_\_\_
6. Shingle Oak (*Quercus imbricaria*) \_\_\_\_\_
7. White Oak (*Quercus alba*) \_\_\_\_\_
8. Black Cherry (*Prunus serotina*) \_\_\_\_\_

*For Help Identifying Trees and for a map of Savanna Trail at Coal Hollow Visit:*

[www.chillicotheParkDistrict.org/coal-hollow-park](http://www.chillicotheParkDistrict.org/coal-hollow-park)

*GPS Coordinates: 40.9037845, -89.4895760*

**Keep Up With All of Our Special Events and More on Our Social Media Outlets:**



Official stamp or Initials





**Chillicothe Railroad Museum**

1100 N 3rd Street  
Chillicothe, IL 61523  
309-247-3236  
www.chillicothehistorical.org

**Hours:**

Every Sunday: 1:00pm-4:00pm

Please phone Monday or Tuesday for a time to visit on  
Wednesday: 1:00pm-4:00pm

**Admission:**

No required admission fee, but tax-deductible  
donations are needed and gratefully accepted

**A Visit into Railroad History**

The Chillicothe Railroad Museum is the former  
Chicago, Rock Island & Pacific Railroad depot on the  
corner of Cedar and Third. You will find hands-on  
artifacts of railroad history. During your visit you will  
use our Morse Code Sender Key and send your own  
name in Morse Code. You will visit the caboose and  
learn why the train conductor sat in the cupola to  
watch for "hot boxes."

*Check out our website to learn more about the  
Chillicothe Historical Society*

**Chillicothe Railroad Museum Questions**

1. Morse Code was used by railroads in past times to  
communicate between depots along the line. Use  
the Morse Code chart to "write" your name on a  
sheet of paper. Then, type your name using Morse  
Code. My name is (dots and dashes)

2. The pole between the Chillicothe depot and the  
railroad track is called a semaphore signal. The "flag"  
or "blades" on the signal can be positioned  
in three different ways to communicate with the  
locomotive engineer. What did the following  
positions convey to the engineer?

Straight up and down blade: \_\_\_\_\_

Diagonal blade: \_\_\_\_\_

Horizontal blade: \_\_\_\_\_

3. The cupola in the caboose was occupied by a train  
crewmember. It is elevated so they could have a  
good view of the train. One problem for which  
this individual was to be alert was smoke from a  
"hot box". A hot box is an overheated

\_\_\_\_\_ which has run out of lubricant.

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or Initials



**Dickson Mounds Museum**

10956 N Dickson Mounds Rd  
Lewistown, IL 61542  
309-547-3721

**Hours:**

Daily  
8:30am-5:00pm

**Admission:**

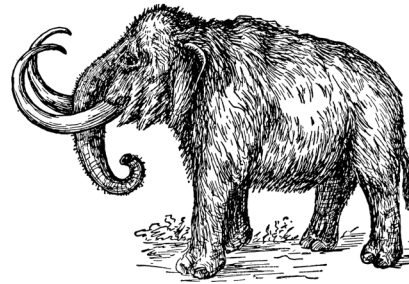
FREE, donations appreciated

The Dickson Mounds Museum, a branch of the Illinois State Museum and a National Historic Site, is one of the major on-site archaeological museums in the United States. It offers a unique opportunity to explore the world of the American Indian in an awe inspiring journey through 12,000 years of human experience in the Illinois River Valley.

Visitors to the museum, in west-central Illinois, encounter innovative interpretive exhibits; exciting hands-on activities; archaeological sites; and a variety of special events in a rural setting.

**Dickson Mounds Museum Questions**

1. Name three of the animals that the first Native Americans saw but have since disappeared.  
\_\_\_\_\_
2. What is the shiny polish that accumulates on stone implements when used to dig dirt?  
\_\_\_\_\_
3. The trunk of this tree was used to make giant posts at the Mitchellle site.  
\_\_\_\_\_
4. The shoulder blade (scapula) of this animal was used to cultivate gardens.  
\_\_\_\_\_



Official stamp  
or Initials





**Emiquon Preserve**  
 Nature Conservancy  
 11304 North Prairie Road  
 Lewistown, IL 61542  
 (309)547-2730  
[www.nature.org/illinois](http://www.nature.org/illinois)

**Hours of Operation:**

Sunrise to Sunset

**Directions:**

Access to the preserve and the lake is provided through the Visitor Use Observatories located along Illinois State Route 78/97. The GPS coordinates are: 40°21'3.27"N latitude 90° 5'10.95"W longitude. Look for the sign below just off of IL Route 78/97. Facilities within the observatories include boardwalks, canoe and boat launches, hiking trail observation deck, pavilions and interpretive signage.

Once ranked among the biologically richest wetlands in the world, The Nature Conservancy's 6,600-acre Emiquon Preserve holds vast floodplains, upland forests and tall grass prairies that have attracted people to this area for more than 12,000 years, Emiquon is a place of mystery and legend with strong connections to the past.



**Emiquon Preserve Questions**

1. By 1915, Thompson Lake's phenomenal hunting and fishing were declining due to what two factors?  
*(Located in the Lakeside Observation Pavilion)*  
 \_\_\_\_\_
2. Name one possible translation of the word Emiquon?  
*(Located on the Lakeside and Wetland Observatories)*  
 \_\_\_\_\_
3. Name two bottomland forest animals. *(Located in the Wetland Observatory Pavilion)*  
 \_\_\_\_\_  
 \_\_\_\_\_

This is an "Honor Site". If no staff person is available an adult who is accompanying the student may initial.

[www.facebook.com/thenatureconservancy](http://www.facebook.com/thenatureconservancy)



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 or Initials



## 2019 Science Treasure Hunt Important Dates

### Start Date:

Saturday, April 13, 2019

### Final Date:

Monday, September 2, 2019

### Final Submission Postmark Date:

Wednesday, September 4, 2019

### Presentation Event:

Sunday, September 29, 2pm

An explanation for each Everyday Science Experiment  
has been posted on the Peoria Academy of Science  
website:

[www.peoriaacademyofscience.org](http://www.peoriaacademyofscience.org)

C1

## 2019 Science Treasure Hunt Everyday Science Experiments

*Remember to answer the questions on page C5 & C6*

### 1. Evaporate Some Water

**Supplies:** Two glasses of the same size, a marker pen, a piece of cardboard that will cover one of the glasses, tape, food coloring (optional).

**What to do:** Fill the glasses to exactly the same level. Add food coloring, if available. Mark the water level on each glass. (Or, mark the water level with tape) Tape the cardboard onto the glass so that it does not fall off. Place the glasses in direct sunlight and cover one of the glasses. Leave the glasses for a full day of sunlight. Then observe the level in each glass.

### 2. Count Your Pulse

**Supplies:** Your left wrist and your right forefinger, a watch or clock that measures seconds.

**What to do:** Use your right forefinger to feel the pulse in the wrist of your left wrist. (The best place is probably just below the base of your thumb.)

A. Count your pulse for 30 seconds. Double this number to obtain your pulse rate. Write down this number.

B. Exercise for several minutes, then count your pulse again for 30 seconds and double this number.

### 3. Produce some Carbon Dioxide [Do this experiment in a sink]

**Supplies:** a tall glass, baking soda, vinegar, liquid dish washing detergent tap water.

**What to do:** Fill the glass half full of water. Add a tablespoon of baking soda and five drops of detergent. Last, add a quarter cup of vinegar.

C2

**4. Go “Birding”**

**Supplies:** None, just your eyes.

**What to do:** Observe a member of the thrush family (The most common one is gray with a reddish-orange breast, relishes earthworms and goes by the scientific name of Turdus migratorius.)

**5. Sky Watching**

**Supplies:** None, just your eyes.

**What to do:** Locate, but do not look directly, at an object in the sky that is eight light minutes from the Earth. Then locate an object in the sky that is 1.3 light seconds from the Earth.

**6. Keep it Warm** (adult supervision required – Hot Water)

**Supplies:** Two identical coffee cups or mugs, tap water, a microwave.

**What to do:** Fill both cups with boiling water. Cover one cup with a saucer. Leave the other cup open. After about 30 minutes feel the outside of each cup. Which cup was warmer?

**7. Deep Diving Raisins**

**Supplies:** Two drinking glasses, eight raisins, tap water, a clear soda drink (club soda, 7-Up, etc.)

**What to do:** Fill one glass with water. Fill the other glass with the soda drink. Drop four raisins in each glass. Observe the raisins.

**8. Shapley Leaves**

**Supplies:** Tree leaves to be collected.

**What to do:** Collect tree leaves of the following types (Refer to the WEB or a tree identification book.)

	Species of Tree
Smooth Edges Simple Leaf	_____
Simple Leaf with Lobes or Teeth	_____
Palmately Compound Leaf	_____
Pinnately Compound Leaf	_____

# 2019 Science Treasure Hunt Official Entry Form

*(Please Print Neatly)*

**Participant’s Name** \_\_\_\_\_

**Age** \_\_\_\_\_ **School** \_\_\_\_\_

**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 4, 2019.  
Do not mail in entire passport, just the center yellow pages C4-C7

# 2019 Science Treasure Hunt Official Answer Form

*Please check one answer for each question*

1. Evaporate Some Water  
From which glass had more water evaporated?  
 The covered glass  
 The uncovered glass
2. Count Your Pulse  
What was your pulse (beats per minute)?  
Before exercising \_\_\_\_\_  
After exercising \_\_\_\_\_
3. Produce some Carbon Dioxide  
When vinegar was added:  
 The glass frothed over with carbon dioxide foam  
 Nothing happened
4. Go "Birding"  
What species of bird did you see? \_\_\_\_\_
5. Sky Watching  
I observed the \_\_\_\_\_ and \_\_\_\_\_.
6. Keep it warm  
Which cup was warmer:  
 The uncovered cup  
 The covered cup

7. Deep Diving Raisins  
The raisins in the tap water:  
 Rose and sank  
 Just stayed at the bottom of the glass  
The raisins in the soda water:  
 Rose and sank  
 Just stayed at the bottom of the glass
8. Shapely Leaves  
I found leaves from the following species of trees:  
Smooth Edges Simple Leaf \_\_\_\_\_  
Simple Leaf with Lobes or Teeth \_\_\_\_\_  
Palmately Compound Leaf \_\_\_\_\_  
Pinnately Compound Leaf \_\_\_\_\_
9. Official Illinois Nature Species  
Bird \_\_\_\_\_  
Tree \_\_\_\_\_  
Flower \_\_\_\_\_  
Insect \_\_\_\_\_  
Grass \_\_\_\_\_  
Animal \_\_\_\_\_
10. Float the Cork in the Middle of the Bowl  
With the water level below the top of the bowl the cork/ball:  
 Went to the side of the bowl  
 Stayed in the middle of the bowl  
With the water forming a positive meniscus the cork/ball:  
 Went to the side of the bowl  
 Stayed in the middle of the bowl



## 2019 Science Treasure Hunt Sites

Check all the sites you visited this year

- Astronomy Section
- Geology Section
- Advanced Medical Transport
- Camp Wokanda
- Caterpillar Visitor Center
- Chillicothe Park District– Coal Hollow Park
- Chillicothe Railroad Museum
- Dickson Mounds Museum
- Emiquon
- Fon-du-Lac Farm Park
- Forest Park Nature Center
- Jake Wolf Fish Hatchery
- Luthy Botanical Gardens
- Peoria Area First Robotics Teams
- Peoria Playhouse Children's Museum
- Peoria Riverfront Museum
- Peoria Zoo
- Tri-County Tropical Fish Society
- U of I Medical College
- Wheels O' Time Museum
- Wildlife Prairie Park

Circle your two (2) favorite sites.

### 9. Official Illinois Nature Species

**Supplies:** None. Just your eyes, and perhaps a WEB Search.)

**What to do:** Identify (and observe, if possible) the following:

Bird \_\_\_\_\_  
Tree \_\_\_\_\_  
Flower \_\_\_\_\_  
Insect \_\_\_\_\_  
Grass \_\_\_\_\_  
Animal \_\_\_\_\_

### 10. Float that Cork in the Middle of the Bowl (Do this in a sink)

**Supplies:** A cork or ping pong ball (a ping pong ball works best), a bowl, tap water

**What to do:** 1. Fill the bowl nearly to the top. Place the cork or ball in the water. Leave the bowl undisturbed for about five minutes. Observe where the cork is floating in the bowl. 2. Remove the cork from the bowl and assure that the bowl is perfectly level and fill it to the very top so it forms a positive meniscus (look that word up). Now carefully place the cork into the bowl being careful not to splash out any water. Observe where the cork is floating.

**The Explanation for each experiment  
is contained on the  
Peoria Academy of Science website  
[peoriaacademyofscience.org](http://peoriaacademyofscience.org)**



### Fon du Lac Farm Park

305 Neumann Drive  
East Peoria, IL 61611  
309-694-2195  
info@fondulacpark.com

#### Spring Hours:

April 15th - May 24th

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

#### Summer Hours:

May 25th - September 2nd

Tuesday - Sunday 9:00am-3:00pm  
(Closed Mondays except for Holidays)

#### 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

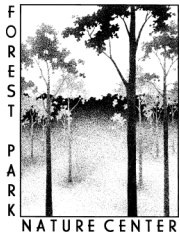
Farm Park's three shallow ponds with their muddy bottoms and rim of cattails, provide the perfect habitat for several species of wild turtles. If your visit is on a sunny day, you may be able to see them basking on logs and rocks. Our covered bridge is an excellent viewing station.

1. How many eggs does a chicken lay per day?  
\_\_\_\_\_
2. Do chickens have teeth? \_\_\_\_\_
3. What is it called when a chicken's feathers fall out and new brighter feathers grow in?  
\_\_\_\_\_
4. For what purpose did pioneer farm wives use chicken feathers?  
\_\_\_\_\_
5. Chickens are the only birds that have this body part.  
\_\_\_\_\_



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### Forest Park Nature Center

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

#### Hours:

Tuesday-Saturday 9:00am-5:00pm  
Sunday 1:00pm-5:00pm  
Trails open dawn to dusk everyday

#### 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.

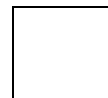
Invitations are provided.  
Birthday Party packages start at \$60.00.  
Call and schedule yours today!

### Forest Park Nature Center Questions

1. Check out the E-Bird Trail Tracker machine in the bird room. Can you name one bird that has been spotted at FPNC this week?  
\_\_\_\_\_
2. Fill in the blank: Visiting nature makes me feel \_\_\_\_\_  
\_\_\_\_\_
3. Take a walk on the trail. Make a sketch of a cool leaf you see.



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**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

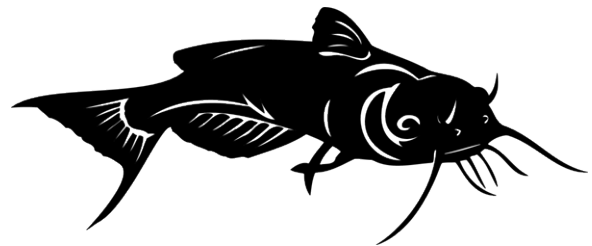
**Directions:**

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 County 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 do fish use to obtain oxygen from water?  
\_\_\_\_\_
2. If a fish has whiskers what type of fish is it?  
\_\_\_\_\_
3. What group of aquatic animals utilizes fish as a host for their larval stage, known as glochidia?  
\_\_\_\_\_
4. What organ inside the fish helps to keep fish right side up?  
\_\_\_\_\_



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**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

**2019 Special Events:**

Open Memorial Day

Open 4th of July

Open Labor Day

French Market in the Park: Sept. 28th (raindate Sept. 29th)

Harry Potter/Chrysanthemum Show: Oct 11th– Nov 3rd

Halloween : Oct 18th-19th

Poinsettia Show: Nov 22nd-Dec 31st

Garden Christmas Party: Dec 13th-14th

Candlelight Walks: Dec 13th-14th & Dec 20th-21st

Kwanzaa: Dec 26th-30th

**Check out our website for more information:**

[www.peoriaparks.org/Luthy-botanical-garden](http://www.peoriaparks.org/Luthy-botanical-garden)

*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.*

**Luthy Botanical Garden Questions**

1. Bees pollinate 1/3 of our food crops. In other words, \_\_\_\_\_ out of \_\_\_\_\_ bites of food can be attributed to bees.
2. To help bees pollinate you should provide a \_\_\_\_\_ of plants to help insects find them by planting clumps.
3. The storage of water often gives succulents a thick, fleshy appearance but they have many water saving characteristics. Name three:  
\_\_\_\_\_  
\_\_\_\_\_
4. Found near the Northeast corner of the Woodland Garden, the \_\_\_\_\_ *Asimina triloba* is a key food source for Zebra Swallowtail caterpillars.



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Peoria Area *FIRST* Robotics Teams  
[www.robotcasserole.org](http://www.robotcasserole.org)  
[www.firstinspires.org](http://www.firstinspires.org)

## RoboRumble

**Where:**

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

**When:**

Saturday, June 15th 12:00pm-4:00pm

**Admission: Free**

**Sponsored by Robot Casserole, *FIRST* Robotics Team 1736**

Come join several area robotics teams at the Peoria Riverfront Museum for robot demonstrations, interactive hands on activities, Lego Mindstorms robots, and science and technology displays.

**Learn more at [www.robotcasserole.org](http://www.robotcasserole.org) and [www.firstinspires.org](http://www.firstinspires.org)**

## Peoria Area *FIRST* Robotics Teams Questions

1. There are \_\_\_\_\_ robotics programs organized by *FIRST* ( For Inspiration and Recognition of Science and Technology).
2. The first robot was built in year \_\_\_\_\_.
3. The first robot on Mars was called \_\_\_\_\_.
4. \_\_\_\_\_ are robots that looks like humans.



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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, Wednesday-Saturday: 9:00am-4:00pm

Member Tuesday: 9am-noon

Sunday: 12:00pm-5:00pm

The PlayHouse is closed Tuesday afternoons

#### Admission:

General Admission: \$8.50

Seniors (65+): \$7.50

Children under 1: FREE

Members: Free

Explorer Families: Free (visit website for more information)



### Peoria PlayHouse Children’s Museum Questions

1. Go to the *Motion Commotion* exhibit and to the magnet tube wall. Can you put together gears and make them all spin at once? What were the most gears you could get to work together?

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2. Visit the *Sci Lab’s* “It’s Electric” interactive. Can you make a working circuit that uses four circuit blocks? What happened when you connected everything?

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3. In the *Sci Lab*, visit the engineering tables. Can you make a structure using two different building toys? What did you make?



@peoriaplayhouse

Explore. Play. Imagine. Create

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**Peoria Riverfront Museum**

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

PEORIA  
RIVERFRONT  
MUSEUM

**Hours:**

Through May 27th  
Tuesday-Saturday 10am-5pm • Sunday Noon-5pm  
May 27th through September 2nd  
Monday-Saturday 10am-5pm • 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. What fuel powered the Duryea Motor Trap in 1898?

\_\_\_\_\_

2. Which river used to flow through the channel outside Peoria Riverfront Museum, which is now occupied by the Illinois River?

\_\_\_\_\_

3. Corn is descended from what ancestral wild grass?

\_\_\_\_\_

4. What is the 2nd largest object in the asteroid belt? (We have a piece of it in the Planetarium lobby.)

\_\_\_\_\_

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



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**Peoria Zoo**

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

**Mission:**

Create connections that inspire an appreciation for and encourage actions to conserve the natural world.

**Hours:**

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

**Admission:**

\$9.75 adults; \$6.75 Children (2-12)  
\$8.75 Seniors/Active Military  
Members FREE

**Stay in Touch:**

Become our friend on Facebook  
Visit [www.peoriazoo.org](http://www.peoriazoo.org)  
Find us on Instagram @peoriazoo



**Peoria Zoo Questions**

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

1. Why do Madagascar Hissing Cockroaches hiss?  
\_\_\_\_\_
2. What species of amphibian communicates with each other, by hand waving a process called semaphore?  
\_\_\_\_\_
3. What type of food make up a Black-handed Spider Monkey diet?  
\_\_\_\_\_  
\_\_\_\_\_

**What's New at the Zoo?**

Memorial Day through Labor Day  
Daily Keeper Chats (Questions with Keepers)  
Zoo camp starts June 10th  
Grades K-8 register now!  
Call 309-681-3559 for details



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**Tri-County Tropical Fish Society**  
Peoria Academy of Science  
www.peoriafishclub.com

## 50th Annual Fish Show

**Where:**  
Northwoods Mall

**When:**  
August 31st 10:00am-9:00pm  
September 1st 12:00pm-6:00pm

**Admission:**  
Free

**Meetings:**  
Second Wednesday of each month at 7pm. Meetings are held at Immanuel Lutheran Church, 526 East Washington Street, East Peoria. The public is welcome!

### Tropical Fish Society Questions

1. What country does a betta come from?  
\_\_\_\_\_
2. How much weight should a stand hold for a 10-gallon tank? *Hint: Water weighs 8.5 lbs per gallon*  
\_\_\_\_\_
3. What is a livebearer?  
\_\_\_\_\_
4. What's the difference between coldwater fish and tropical fish?  
\_\_\_\_\_
5. What is the biggest mistake a beginning Fish Keeper makes?  
\_\_\_\_\_



@TricountyTropicalFishSocie



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

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

**Recommended Hours:**

Monday – Friday 9:00 a.m. – 5:00 p.m.  
Saturday Noon – 5:00 p.m.

**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 Peoria (UICOMP) educates about 245 medical students and nearly 300 physician residents annually. The College of Medicine 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 & Education Center.

Learn more at [peoria.medicine.uic.edu](http://peoria.medicine.uic.edu)

**University of Illinois College of Medicine at Peoria  
and Library of the Health Sciences**

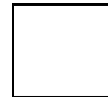
1. How much sleep do most kids need each night?  
\_\_\_\_\_
2. Name one of the many things that your body and brain do while you are asleep.  
\_\_\_\_\_
3. Name an animal that needs less sleep than kids do.  
\_\_\_\_\_
4. What kind of doctor helps people who have trouble sleeping?  
\_\_\_\_\_



For more information,  
please visit us online at:

[peoria.medicine.uic.edu](http://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. What is the source of the power used to operate the Detroit Electric car and the Elec-Trak garden tractor? *Located in Main Building & Farm Building*

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2. What causes the gasoline to be transferred from the glass tank at the top of the gas pump to an auto's gas tank? *Located in main Building*

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3. A. How is the force from pedaling transferred from the pedals to the rear wheel of a bicycle? *Located in Fire House*

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- B. If the sprocket in the rear wheel is increased in diameter and the chain lengthened to match, does this make the bicycle easier or harder to pump?

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- C. Does the above change make it easier or harder to go faster?

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An adventure awaits™

**Wildlife Prairie Park**  
3826 N Taylor Road  
Hanna City, IL 61536  
309-676-0998

**Hours:**

Memorial Day through Labor Day  
9:00am-6:30pm

**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](http://www.wildlifeprairiepark.org)

[www.facebook.com/wildlifeprairiepark](http://www.facebook.com/wildlifeprairiepark)



**Wildlife Prairie Park Questions**

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

1. What other two names are a Timber Rattlesnake known as?  
\_\_\_\_\_ and \_\_\_\_\_
2. During the Pleistocene a large number of species went extinct. What two hypotheses do scientist believe caused this?  
\_\_\_\_\_  
\_\_\_\_\_
3. What two things can badger tell about another badger on smell alone?  
\_\_\_\_\_  
\_\_\_\_\_

**2019 Special Dates**

April 27-28th: Bison Blessing Pow Wow  
May 11th: National Train Day  
May 12th: Mothers Day at the Park  
June 21-23rd: Olde English Faire  
July 13th: Art in the Wild

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**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**

*since 1930*

**About the cover artist...**

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

shanemabus@hotmail.com



**Special thanks to our printer**

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240 Farmdale Rd

East Peoria, IL 61611

(309) 699-3977