

# Peoria Academy of Science Science Treasure Hunt Passport 2013

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





# 2013



## Science Treasure Hunt

Thank you for participating in the 2013 Science Treasure Hunt. This year marks the 24rd 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

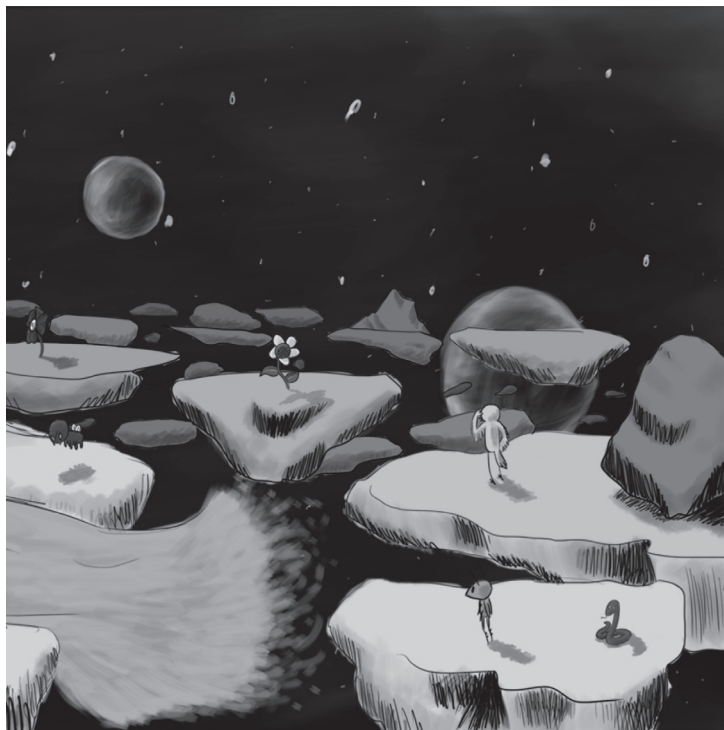
This Passport Belongs to:

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Your Gift is Welcome and Needed

The Science Treasure Hunt is supported entirely by contributions. All funds go towards 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



### About the cover artist...

Illustrator, Shane Mabus is a professional Graphic Designer. This is the sixth year Shane has donated his whimsical and thought provoking drawings to Peoria Academy of Science. shanemabus@hotmail.com

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\* New Site This Year

## Rules

### Official Dates:

Saturday, April 20, 2013 — Monday, September 2, 2013

### Sponsor:

The Peoria Academy of Science and the Peoria Riverfront Museum are the proud sponsors of the 24th 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. This year there are 5 new sites!

### Entrant Requirements:

All entrants must be students between 1st grade and 8th grade on April 20, 2013, reside in Central Illinois, and complete the following steps:

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. (Everyday Science Experiments are 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 4, 2013.** Only one entry per person. Entries from different members on 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 15, 2013. 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 prizes 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 September 22, 2013 at 2:00 p.m. 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 22, 2013 at 2:00 p.m.**

**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.***

If unable to attend the initial 100 winners may pick up their prize packet at Peoria Riverfront Museum before October 15th.

#### **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, Luthy Botanical Gardens, Peoria Zoo, Wheels O' Time Museum, and Wildlife Prairie State 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.

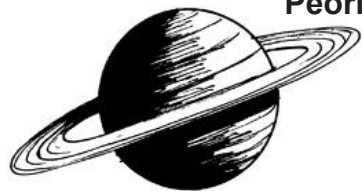
The current sections of the Peoria Academy of Science include:

**Peoria Astronomical Society**  
**Peoria Audubon Society • Peoria Botany Society**  
**Entomology Section • Geology Section**  
**Central Illinois Herpetology Society**

The Academy has approximately 600 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  
309-645-2433

**Admission is Free!**

**What:**

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 Donovan Golf Course,  
500 feet south of the golf course/observatory parking lot,  
which is accessible from the 5800 block of Knoxville Avenue.

**When:**

On any clear Saturday evening after dark,  
from May 18th though October 19th.

The heavens are within your reach at the  
**Peoria Astronomical Society**  
[www.astronomical.org](http://www.astronomical.org)

**Peoria Astronomical Society Questions**

1. What is the name of the big comet expected at the end of 2013?  
\_\_\_\_\_

2. What mini-car sized object has landed on Mars in 2012, and  
what is its major mission?

2A. Name: \_\_\_\_\_

2B. Mission: \_\_\_\_\_

3. What are the names of Pluto's moons?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4A. In what year was the Northmoor Telescope made? \_\_\_\_\_

4B. Which type of telescope is housed at the  
Northmoor Observatory? Refractor or Reflector (circle one)

Official stamp  
or initials





## Geology Section

Peoria Academy of Science

P.O. Box 10294

Peoria, IL 61612

309-645-3609 or 309-678-7306

## Geology Section Annual Show

Grand Hotel

4400 North Brandywine Drive • Peoria, Illinois 61614

boatnick@aol.com 309-645-3609

**Saturday, August 24, 2013**

9:00 a.m. - 5:00 p.m.

**Sunday, August 25, 2013**

10:00 a.m. - 5:00 p.m.

**Admission and parking are 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.

*GEOLOGY*  
*IS ROCK SOLID SCIENCE*

## Geology Section Questions

1. In what type of rock is Illinois' famous state fossil, the Tully Monster, found?

\_\_\_\_\_

2. Name the mineral that crystallizes in a cubic (isometric) habit.

\_\_\_\_\_

3. Can you think of an example of a rock and a mineral that have been given the same name?

\_\_\_\_\_

4. On average more money goes INTO the ground trying to find GOLD than ever comes OUT of the ground.

True or False (circle one)

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](http://www.centralillinoisherp.com)

### 21st Annual Reptile & Amphibian Fair

#### Where:

St. Paul's Episcopal Cathedral  
3601 N. North Street, Peoria IL 61604  
(Near War Memorial and Sheridan)

#### When:

Saturday, August 17th 10:00 a.m. – 5:00 p.m.  
Sunday, August 18th Noon – 5:00 p.m.

#### Admission:

\$3.00 per person



One child with passport admitted FREE with each paying adult

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

#### Meetings:

First Thursday of the month at 7:00 p.m.  
Forest Park Nature Center  
Everyone is invited and welcome

### Central Illinois Herpetological Society Questions

1. Name the three most common small frogs in Central Illinois:

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2. What aquatic turtles are most hunted for food in Illinois?

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3. What are the two largest toads found in Illinois?

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Official stamp  
or initials

☐

Check us out on Facebook  
or learn more at  
[www.centralillinoisherp.com](http://www.centralillinoisherp.com)







## Caterpillar Visitors Center

110 SW Washington Street  
Peoria, IL 61602  
309-675-0606

### Hours:

Monday – Saturday  
10:00 a.m. – 5:00 p.m.  
Last ticket sale and entry is at 3:30 p.m.

Closed Sundays and Holidays

### Tickets:

General Admission \$7.00  
Seniors 55+ \$6.00  
Active military and veterans \$6.00  
Military 55+ \$5.00

*Children  
12 and under  
are FREE!*

(Limit 4 free children per 1 adult ticket)

### \$1.00 off admission

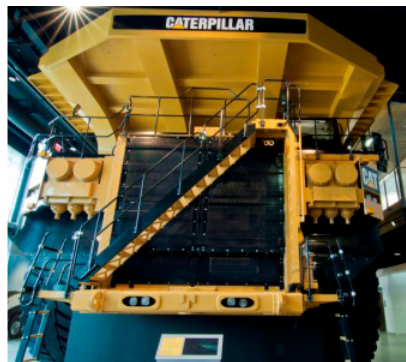
Limit one per person. Coupon Code: Science  
Expires 9/20/2013

For more information visit:

[www.caterpillar.com/visitors-center](http://www.caterpillar.com/visitors-center)

## Caterpillar Visitors Center

1. On sunny days, the Caterpillar Visitors Center solar panels can provide up to \_\_\_\_\_ of the energy needed to power the center at any given time.
2. The 797F Mining Truck stands \_\_\_\_\_ stories tall with the body raised.
3. Heat treatment of steel dramatically improves strength and product performance. A common steel heat treating begins with a heat of \_\_\_\_\_ to \_\_\_\_\_.
4. The 950K Wheel Loader was designed to improve performance and productivity. The 950K is supported by \_\_\_\_\_, the patented wheel loader coupler system from Caterpillar.



Official stamp  
or initials





# Dewberry®

## Dewberry Architects

401 SW Water Street  
Suite 701  
Peoria, IL 61602  
309-282-8194  
www.dewberry.com

### Contact Person:

Cody Bornsheuer  
cbornsheuer@dewberry.com

### Hours:

Daily 8:30 a.m. – 4:30 p.m.  
No need to call ahead

### Admission:

Free

**Dewberry is a leading professional services firm with a proven history of providing architecture, engineering, and management and consulting services.**

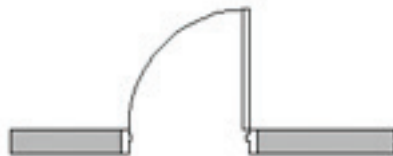
**Established in 1956, Dewberry is headquartered in Fairfax, Virginia, with more than 40 locations and more than 1,800 professionals nationwide.**

## Dewberry Architects

1. Before a building can be used, it must be DESIGNED and CONSTRUCTED. Which of these are done by an architect?

\_\_\_\_\_

2. In our drawing, we use symbols to indicate the different parts of a building. What does this symbol show?



\_\_\_\_\_

3. Fire is very dangerous to a building and the people who use the building. Look above your head and you will see black pipes running just below the ceiling. What are these?

\_\_\_\_\_

Official stamp  
or initials





## Dickson Mounds Museum

10956 North Dickson Mounds Road  
Lewistown, IL 61547  
309-547-3721

### Hours:

Open Daily year round 8:30 a.m. – 5:00 p.m.

### Admission: Free

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

### Location:

Located between Lewistown and Havana,  
off Illinois Rts. 78 & 97, and 45 miles southwest of Peoria.

Explore 12,000 years of American Indian lifeways through  
interpretive, multi-media, hands-on activities, artifacts and public  
events, in a lovely rural setting.

For more information  
on special exhibits and public programs visit:

**[www.experiencedicksonmounds.com](http://www.experiencedicksonmounds.com)**

## Dickson Mounds Museum Questions

The answers are to be found within the displays  
throughout the museum.

### Display 1: "Hunting and Gathering Display"

(Located on the 2nd floor)

1. What animal did Native Americans tame that became  
their "best friend"?

A. \_\_\_\_\_

### Display 2: "Conflict and Change Display"

(Located on the 2nd floor)

2. What was the name of the French fort in Southern Illinois?

A. \_\_\_\_\_

### Display 3: "Mississippian Lifeways Exhibit"

(Located on the 2nd floor)

3. What food did the Native Americans store in the ground?

A. \_\_\_\_\_

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or initials





Protecting nature. Preserving life.™

## Nature Conservancy

Emiquon Preserve  
11304 North Prairie Road  
Lewistown, IL 61542  
309-547-2730

**Hours:** Sunrise to Sunset

**Admission:** Free

**Directions to site:** Access to the preserve and the lakes is provided through the Visitor Use Observatories located along Illinois State Route 78-97. Facilities within the observatories include boardwalks, canoe and boat launches, hiking trail, observation deck, pavilions and interpretive signage.

**Site Description:** 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.



"Like" The Nature Conservancy in Illinois  
or learn more at [nature.org/illinois](http://nature.org/illinois).



## Nature Conservancy Emiquon Preserve Questions

**Sign 1:** "Recreation, Alteration and Conflict Sign"  
(Located in the Lakeside Observatory Pavilion)

1. By 1915, Thompson Lake's phenomenal hunting and finching were declining due to what two factors?
- 

**Sign 2:** "Immerse Yourself in Emiquon"  
(Located on the Lakeside and Wetland Observatories)

2. Name one possible translation of the word Emiquon?
- 

**Sign 3:** "Bottomland Forest Sign"  
(Located on the Wetland Observatory Pavilion)

3. Name two bottomland forest animals?
- 

**Official Stamp/Initials Provided at  
Dickson Mounds Museum  
10956 N Dickson Mounds Road  
Lewistown, IL 61542  
(309) 546-3721**

Official stamp  
or initials



*If museum is closed, parents or accompanying adults may initial.*



## Fon du Lac Farm Park

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

### Spring Hours:

April 22nd through May 24th  
Monday through Friday 9:00 a.m. – 3:00 p.m.  
Closed Weekends

### Summer Hours:

May 25th through September 2nd  
Tuesday through Sunday 10:00 a.m. – 3:00 p.m.  
Closed Mondays except for  
Memorial Day (May 27th) & Labor Day (September 2nd)

### Entry Fee:

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 has many varieties of flowers growing in our gardens. Perhaps the flowers you see here will provide some ideas for flowers in your own garden.

1. Why do flowers produce blooms?

To produce \_\_\_\_\_

2. How long does it take for these different types of plants to complete their life cycle?

A. Annuals: \_\_\_\_\_

B. Perennials: \_\_\_\_\_

C. Biennials: \_\_\_\_\_

3A. What is the organic material we place around the bottom of the plants?

3A. \_\_\_\_\_

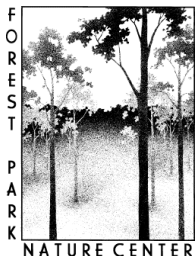
3B. List two reasons why this material is good for the plants?

3B. It retains \_\_\_\_\_ and it helps to control \_\_\_\_\_.

4. Name one of the easiest flowers to grow? \_\_\_\_\_  
(It is a Farm Park favorite)

Official stamp  
or initials





## Forest Park Nature Center

5809 Forest Park Drive  
Peoria Heights, IL 61616  
309-686-3360  
[www.peoriaparks.org](http://www.peoriaparks.org)

### Hours:

Monday – Saturday 9:00 a.m. – 5:00 p.m.  
Sunday 1:00 p.m. – 5:00 p.m.

### Admission: Free

Enjoy 7 miles of hiking trails, 540 acres of dedicated Illinois State Nature Preserve, Interpretive Center and interactive and multimedia exhibits and 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 take your group on a hike and focus on what is happening in the forest that is unique to the time of the year when you were born. 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 \$50.00.

Call and schedule yours today!

## Forest Park Nature Center Questions

1. Name one precaution you can take to avoid ticks.  
(Answer found on the poster on the store door)

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2. Name the white owl pictured in the bird room.  
It is also an Illinois Endangered Species.

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3. What is the nickname for Big Bluestem, the official state grass of Illinois.  
(Answer found on the interpretive sign found out at the prairie)




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Official stamp  
or initials





**Giant Oak Park**  
426 West High Street  
Peoria, IL 61605  
[www.peoriaparks.org](http://www.peoriaparks.org)

Giant Oak Park is one of the Peoria Park District's 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.

**Hours:**

Monday – Sunday  
Dusk to Dawn

**Admission:** Free

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



**Giant Oak Park**

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

\_\_\_\_\_

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

\_\_\_\_\_

3. Some scientists 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?

The family of \_\_\_\_\_.

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

\_\_\_\_\_

Date of visit: \_\_\_\_\_

Initials





**Jake Wolf Fish Hatchery**

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

**Hours:**

8:30 a.m. – 3:30 p.m.

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****Treasure Hunt:**

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

**Directions:**

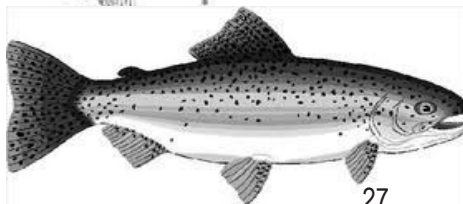
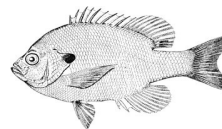
From Peoria area, take Illinois Route 29 south through Pekin,  
turn right on the Manito blacktop into Manito.  
Take the first right past the Country Companies building (which  
will be on the left-hand side) on to country Road 2500 North.

Follow 2500 North for five miles and  
turn right at the Jake Wolf sign.

Follow the lane to the Jake Wolf Fish Hatchery.

**Jake Wolf Fish Hatchery Questions**

1. What internal organ keeps a fish from sinking while it is swimming?  
\_\_\_\_\_
2. When young fish are moved from incubation to start tanks what is the term used to describe them?  
\_\_\_\_\_
3. Mussel shells were used to make what important clothing item during the early 1900's?  
\_\_\_\_\_



Official stamp  
or initials



# LUTHY BOTANICAL GARDEN

## Luthy Botanical Garden

Corner of Gift & Prospect

Glen Oak Park

2520 North Prospect Road

Peoria, IL 61603

309-681-3506

### Hours:

Tuesday through Saturday 10:00 a.m. – 5:00 p.m.

Sunday 12:00 p.m. – 5:00 p.m.

Closed Monday

### Admission:

Adults \$2.50; Children 13 & under FREE

Garden Members FREE

*One adult admitted FREE with each child bearing  
a Treasure Hunt Passport*

Check out our website for more information:

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

## 2013 Special Events

**Spring Plant Sales**—April 26th – 28th

**Mother's Day Orchid Show**—May 12th

**Rhapsody in Bloom**—June 29th – 30th

**Chrysanthemum Show "The Nightmare before Christmas"**

October 18th – November 10th

**Poinsettia Show**—November 22nd – December 31st

**Kwanzaa Exhibit**—December 26th – 31st

## Luthy Botanical Garden Questions

1. There are three signs within the Conservatory which concern Rain Forests. Find and read these signs to answer the following questions:

A. There are more different life forms in a few \_\_\_\_\_ of Rain Forests than on whole \_\_\_\_\_ worldwide.

B. Rain Forests are the source of many life-saving \_\_\_\_\_.

C. Why are Rain Forests being destroyed?

a. \_\_\_\_\_

b. \_\_\_\_\_

2. Within the Conservatory: find the plant with the scientific name "Dieffenbachia amoena." If the leaves of this plant are chewed one's tongue will swell up and the person may be temporarily unable to speak and could possibly even choke to death. What is the common name of this attractive plant which is found in many homes and offices?

3. Outside on the north side of the building, along the walk, find a very tall grass with the scientific name "Miscanthus giganteus." This grass is a great source of alternative fuel and can produce four times more ethanol per acre than corn. What is the common name of this plant?

\_\_\_\_\_  
\_\_\_\_\_

Official stamp  
or initials



## Soldwedel Program Center

Pekin Park District  
207 McNaughton Park Drive  
Pekin, IL 61554  
309-347-PARK (309-347-7275)  
www.pekinparkdistrict.org

**Admission:** Free

The Pekin Park District's Soldwedel Program Center is located just off Illinois Route 98 on the north edge of Pekin, adjacent to McNaughton Park.

Turn onto McNaughton Park Road from Illinois Route 98, then turn right again at signs indicating "Soldwedel Program Center" and "Rockin' P Public Riding Center." Look for the "Illinois River Road" sign on the right across from the horse corral.

The Pekin Park District's Soldwedel Program Center is a unique woodland meeting place and venue for outdoor education and recreation, with overnight lodging, as well. The two cabins, lodge and fourteen acres of woodlands and prairie were recently purchased from the Girl Scouts of Central Illinois.

### Instructions:

Obtain answers from the "Illinois River Road" sign just across from the horse corral.

An accompanying adult may initial the following page upon each child answering the questions.

## Soldwedel Program Center Questions

Obtain answers from the "Illinois River Road" sign just across from the horse corral.

1. This sign is for the \_\_\_\_\_.
2. Here at McNaughton Park there is an effort to restore habitat for \_\_\_\_\_ - \_\_\_\_\_.
3. This is accomplished by reducing \_\_\_\_\_.
4. What species of bird lays its eggs in other birds' nests and pushes out the other baby birds that belong in the nest?  
\_\_\_\_\_

## Suggestion:

***Check out the Rockin' P Public Riding Center during your visit. The Center is adjacent to McNaughton Park, just off Illinois Route 98.***

Official stamp  
or initials





## Peoria Air National Guard

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

### Hours:

Must phone ahead to schedule a tour of the base.

Tours are schedules for 9:00 a.m. 1:00 p.m.

Tuesday and Thursday only on a first come first reserved basis.

Please call 309-633-5118 to schedule a time.

**Admission: Tours are free of charge**

### Tours:

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



## Peoria Air National Guard Questions

1. Examine the wings of our C-130 aircraft.  
As the air craft moves through the air what force does the air produce to the underside of the wing to cause it to fly?  
\_\_\_\_\_
2. Why should a gasoline fire NOT be extinguished with water?  
\_\_\_\_\_
3. Other than water, what substance do  
National Guard firefighters use to extinguish fires?  
\_\_\_\_\_
4. Why should you NOT try to extinguish an  
electrical fire with water?  
\_\_\_\_\_
5. How often should the batteries in home smoke detectors  
be checked and changed if necessary?  
\_\_\_\_\_

# 182nd Airlift Wing

Official stamp  
or initials





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

**Hours:**

June – September

Monday, Tuesday, Wednesday & Saturday 10:00 a.m. – 5:00 p.m.

Thursday & Friday 10:00 a.m. – 8:00 p.m.

Sunday Noon – 5:00 p.m.

**Admission:**

	Non-members
Members – Free	Adults \$11.00
	Seniors 60+ \$10.00
	Youth 3-17 \$9.00

*One child with passport admitted free with each paying adult*

Journey into Peoria's past in The Street, explore the Illinois River Encounter and engage young minds in Discovery Worlds. 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**

**Illinois River Encounter**

1. About how long ago did the Illinois River form?

\_\_\_\_\_

2. What group in ancient Greece had the following quotation as their motto: "All nature consists of harmony arising out of numbers?"

\_\_\_\_\_

**IHSA Peak Performance**

3. Most musical instruments fall into six major categories. What are those 6 categories?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Sound is a mechanical wave that is a TAIRBINOV of pressure transmitted through a solid, liquid, or gas, composed of frequencies within the range of hearing. (Unscramble the anagram.)

\_\_\_\_\_

For a full list of museum hours and admission prices, visit our website:  
**[www.PeoriaRiverfrontMuseum.org](http://www.PeoriaRiverfrontMuseum.org)**



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**Peoria Humane Society/  
Peoria County Animal  
Protection Services**

2600 NE Perry Avenue  
Peoria, IL 61601  
309-672-2447

**Special Treasure Hunt Dates:**

June 6th & 7th at 2:00 p.m.

June 20th & 21st at 2:00 p.m.

July 11th & 12th at 2:00 p.m.

Tours only on the above dates and time.

**Admission: Tours are FREE,  
but pre-registration is required.  
Please call 309-672-2447  
to schedule a tour and reserve a tour date.**

The Peoria Humane Society partners with the Peoria County  
to offer animal welfare and animal protection services  
throughout the Peoria County area.

The Peoria Humane Society has a unique animal Resource  
Library and a wide variety of programs for children at the  
Educational Center at PAWS. The PHS/Peoria County Animal  
Protection Services is located directly behind Glen Oak Park  
on Perry Avenue, two blocks north of Woodruff High School.

**Thanks and LOVE your pets!!**

**Peoria Humane Society Questions**

1. List two ways that the Peoria County Animal Protection  
Services (PCAPS) helps people and animals.

A. \_\_\_\_\_

B. \_\_\_\_\_

2. List two ways that PCAPS protects animals from cruelty.

A. \_\_\_\_\_

B. \_\_\_\_\_

3. List three ways that the Peoria Humane Society (PHS)  
supports PCAPS in helping animals in the Peoria area.

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

4. List three ways you can be a responsible cat owner.

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

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**Peoria Zoo**  
2218 Prospect Road  
Peoria, IL 61603  
309-686-3365  
[www.peoriazoo.org](http://www.peoriazoo.org)

**Mission:**

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

**Hours:**

Daily 10:00 a.m. – 5:00 p.m.  
Gate closes at 4:30 p.m.

**Admission:**

\$9.00 Adult; \$8.00 Seniors;  
\$5.25 Children (3-12); Free Children (2 and under)  
Members Free

**Stay in Touch:**

Become our friend on Facebook  
Visit [www.peoriazoo.org](http://www.peoriazoo.org)  
Check out our Youtube page at  
[www.youtube.com/peoriazoo](http://www.youtube.com/peoriazoo)



**Peoria Zoo Questions**

1. This dad carries his offspring on his back, handing them  
off to mom only to nurse.

\_\_\_\_\_

2. The males of this animal can grow tusks that can get up  
to 6.5 inches long.

\_\_\_\_\_

3. What animal makes a sharp barking sound as an alarm call  
(it gives them the nicknames barking deer)?

\_\_\_\_\_

**What's NEW at the ZOO?**

**Memorial Day through Labor Day**

**Daily Keeper Chats**

**Zoo Camp starts June 3rd**

**Register Now!**  
**Grades K-8**

For more information  
[www.peoriazoo.org](http://www.peoriazoo.org)



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or initials







## Princeville Heritage Museum & Akron Townhouse School

325 North Ostrom

Princeville, IL 61559

309-385-1916

[www.princevilleheritagemuseum.com](http://www.princevilleheritagemuseum.com)

[phmdirector@frontier.com](mailto:phmdirector@frontier.com)

### Hours:

Open year round

Monday, Wednesday, and Friday 10:00 a.m. – 2:00 p.m.  
or by appointment

Reservations required for groups

**Admission:** Free, donations accepted

The Princeville Heritage Museum is a 15,000 square foot handicap accessible facility featuring antique agriculture equipment, steam powered tractors and threshers, area artifacts, genealogy research and much more.

The Akron Townhouse School is a restored one room schoolhouse that allows visitors to explore the history of education.

## Princeville Heritage Museum Questions

1. What fuel is used in the Aladdin lamp?

\_\_\_\_\_

2. What material were the early dolls made from?

\_\_\_\_\_

3. What common farm container was replaced with bulk tanks in the late 1930s?

\_\_\_\_\_

4. Between the years 1850 and 1870, what material was used to make small decorative wreaths?

\_\_\_\_\_

5. What item was presented to local Civil War veterans by their fellow veterans?

\_\_\_\_\_

6. What company in the 86th Illinois regiment did most local men serve in?

\_\_\_\_\_

Official stamp  
or initials





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

### Recommended Hours:

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

### Directions:

The College of Medicine is located in downtown Peoria near Main Street and Kumpf Boulevard. Parking is in the visitor's section. 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.

**One of four Campuses that make up the largest public medical school in the U.S., the University of Illinois College of Medicine at Peoria (UICOMP) educates more than 150 medical students annually and offers 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.**

For more information, please visit us online 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. In what year did the Illinois legislature establish the Peoria School of Medicine, now named the University of Illinois College of Medicine at Peoria (UICOMP)?  
\_\_\_\_\_

2. What animal was used in experiments that revealed the heart's electricity?  
\_\_\_\_\_

3. Which part of your heart makes the heart beat sound?  
\_\_\_\_\_

4. How long does it take for the human heart to pump blood to every cell in your body?  
\_\_\_\_\_

Official stamp  
or initials





## Wheels O' Time Museum

1710 West Woodside Drive

Dunlap, IL 61525

309-243-9020

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

[wotmuseum@aol.com](mailto:wotmuseum@aol.com)

### Hours:

May through October

Wednesday through Sunday Noon – 5:00 p.m.

Opens May 1st

### Entry Fee:

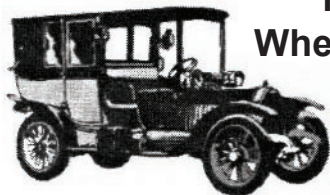
Adults \$6.50 (\$5.50 for groups of 20 or more)

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 \$6.50 adult

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



## Wheels O' Time Museum Questions

1a. What fuel powers the Indy racer?

1A. \_\_\_\_\_

1b. What is the source of the fuel?

1B. \_\_\_\_\_

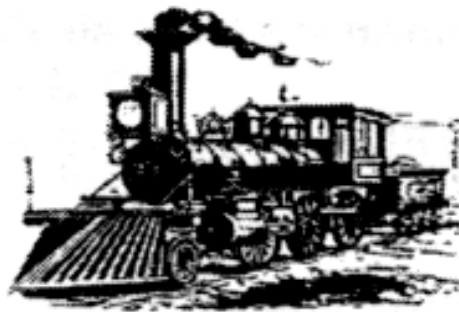
2. How do you spell SOS in Morse Code?

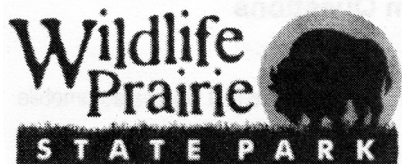
\_\_\_\_\_

3. Which weighs more — pound of lead or a pound of wood?  
(Try to weigh it on the small scale in the Farm Building)

\_\_\_\_\_

Official stamp  
or initials





## Wildlife Prairie Park

3826 North Taylor Road  
Hana City, IL 61536  
309-676-0998

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

email: [saramackey@wildlifeprairiestatepark.org](mailto:saramackey@wildlifeprairiestatepark.org)

### Hours:

10:00 a.m. – 4:30 p.m.

Daily - February 26th through March 31st

9:00 a.m. – 6:30 p.m.

**Daily - May 28th through September 2nd  
Memorial Day through Labor Day Weekends**

9:00 a.m. – 4:30 p.m.

Daily - April 1st through May 28th

9:00 a.m. – 4:30 p.m.

Daily - September 3rd through October 31st

10:00 a.m. – 4:30 p.m.

Daily - November 1st through December 9th

Open Thanksgiving Day from 10:00 a.m. – 4:00 p.m.

### Entry Fee:

Adults \$8.00; Ages 3-12: \$6.00; Ages 2 and under: Free  
One child with passport admitted FREE with a paying adult

## Wildlife Prairie State Park Questions

1. Why can't a cougar roar like a lion?

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2A. What feature on the red foxes is similar to a cat?

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2B. What other animal does a red fox smell like?

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3. How much does a baby Black Bear usually weigh when it is born?

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4. How did the question mark and comma butterflies get their names?

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## 2013 Special Dates

*\*Please phone ahead for reservations*

**1st Saturday of the month - \*Boy Scout Merit Badge Days**

**2nd Saturday of the month - \*Girl Scout Badge Days**

**4th Saturday of the month - \*Junior Explorers**

**June 21st – 23rd - Old English Faire**

**June 24th – 28th - \*Day Camp (visit website for topics)**

**Visit our website for more details!**

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

*Children can pick up a book or have their book stamped at the  
Visitor Center or Adventure Store.*

Official stamp  
or initials

# 2013 Science Treasure Hunt

## Important Dates

### Start Date:

Saturday, April 20, 2013

### Final Date:

Monday, September 2, 2013 (Labor Day)

### Final Submission Postmark Date:

Wednesday, September 4, 2013

### Presentation Event:

Sunday, September 22, 2013

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

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# 2012 Science Treasure Hunt

## Everyday Science Experiments

Remember to Answer the Questions on page C5 & C6.

### 1. What do spices and herbs taste like?

**Supplies needed:** A. Spices from seeds - black pepper, paprika, allspice, cloves, nutmeg, poppy, mace, saffron, turmeric, caraway, cumin, fennel, anise, dill, vanilla, coriander, powdered mustard, vanilla extract. B. Herbs from leaves - mint, parsley, thyme, dill, oregano, bay leaves, basil, coriander, tarragon, rosemary, sage, dill, chives, marjoram. C. Spices from the bark of a tree - cinnamon.

**What to do:** A. Taste at least three spices from seeds. B. Taste at least three herbs. C. Taste a spice made from the bark of a tree.

### 2. Float (or sink) that Needle

**Supplies needed:** Drinking glass, small sewing needle, tissue paper (Kleenex), tap water, liquid soap, and a Q-tip or straw.

**What to do:** Cut a square of tissue paper with sides slightly longer than the needle. Fill the glass with water nearly to the brim (top). A. Place the needle on the tissue paper square and carefully place it on the surface of the water. Observe whether the tissue paper and/or needle sink or float. (If the needle sinks right away try the experiment again, perhaps with bottled water.) B. If the needle floats dip the Q-tip or straw into the liquid soap and put a tiny bit of the liquid soap into the water. What happened to the needle?

### 3. Floating Ice on Top - Water Blobs on Bottom.

**Supplies needed:** A clear glass, corn oil (or any other cooking oil), and an ice cube.

**What to do:** Pour several inches of cooking oil into the glass. Drop the ice cube into the corn oil. Watch for several minutes.

#### 4. The Power of Air

**Supplies needed:** A 12 inch long ruler, and a sheet of newspaper

**What to do:** Place the ruler on a table with about a third of it extending off the table. Place the sheet of newspaper on the table with its edge at the table edge and completely covering the portion of the ruler that is on the table. Smooth the paper down so there is no air under the paper. Now push down on the ruler with your hands (but not so hard as to break the ruler or hurt your hand.) Watch happens?

#### 5. Knock out that bottom coin

**Supplies needed:** About eight (8) quarters and a regular dinner knife.

**What to do:** Stack the quarters on the kitchen counter top. Slide the knife along the counter top and sharply strike the bottom coin. Observe what happens.

#### 6. Make Oil and Water Mix

**Supplies needed:** Two glass or clear plastic jars with lids, corn oil (or any other cooking oil), liquid soap, and tap water.

**What to do:** Fill each jar about one-quarter full with cooking oil. Then add tap water until each jar is about three-quarters full. Put on the lid on one of the jars and shake. What happen to jar number one? Now, squirt a small amount of liquid soap into the second jar. Put the lid on the second jar and shake. What happened to jar number two?

#### 7. Wing It!

**Supplies needed:** A sheet of paper and scissors.

**What to do:** Cut a strip of paper about two inches wide and eight inches long. Hold the corners of one end of the paper strip in each hand and hold it against your lower lip. Blow gently over the paper. What happened?

#### 8. Upside down - but full of water.

**Supplies needed:** A tall drinking glass, tap water, and a sheet of paper.

**What to do:** Tear or cut off a square piece of paper slightly larger than the diameter of the glass. Fill the glass with tap water to within ¼ inch of the rim (top). Place the paper over the rim of the glass. Hold the paper in place with your hand over the sink and turn it over. Remove your hand from the paper. Try it several times using a dry piece of paper each time. You might even shake the glass up and down to see what happens. (But don't swing it from side to side.)

#### 9. Disturbing the Surface

**Supplies needed:** A saucer, ground pepper, liquid soap, a Q-tip, and tap water.

**What to do:** Fill the saucer with water to a depth of about 1/2 inch. Sprinkle pepper on the water service. A. Observe the distribution of the pepper on the water. B. Dip the Q-tip in the liquid soap and touch it to the water in the center of the saucer. Observe what happens.

#### 10. Sprouting carrot tops (Caution: adult supervision required)

**Supplies needed:** One or more carrot top, a saucer, and tap water.

**What to do:** Cut off the top half-inch of the carrot. Pinch off any remaining leaves. Put some water in the saucer and place the carrot top in the middle of the saucer. Place the saucer in window for several weeks being certain not to let the water dry out. Observe whether new leaves emerge.

## 2013 Science Treasure Hunt Sites

Check all the sites you visited this year.

- ☐ Peoria Astronomical Society
- ☐ Geology Section
- ☐ Central Illinois Herpetology Society
- ☐ Caterpillar Visitors Center
- ☐ Dewberry Architects
- ☐ Dickson Mounds Museum
- ☐ Emiquon Preserve, Nature Conservancy
- ☐ Fon du Lac Farm Park
- ☐ Forest Park Nature Center
- ☐ Giant Oak Park
- ☐ Jake Wolf Fish Hatchery
- ☐ Luthy Botanical Gardens
- ☐ Pekin Park District, Soldwedel Program Center
- ☐ Peoria Air National Guard
- ☐ Peoria Riverfront Museum
- ☐ Peoria Humane Society
- ☐ Peoria Zoo
- ☐ Princeville Historical Society Museum
- ☐ University of Illinois School of Medicine at Peoria
- ☐ Wheels O' Time Museum
- ☐ Wildlife Prairie Park

Circle your two (2) favorite sites.

## 2013 Science Treasure Hunt Official Entry Form

Please print.

Participant's Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Age \_\_\_\_\_ Grade \_\_\_\_\_

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

stamp or initials of your  
last Science Site



Must be post-marked no later than **Wednesday, September 4, 2013**.  
Do not mail entire passport, just the center yellow pages C4–C7.



# 2013 Science Treasure Hunt

## Official Answer Form

Please check one for each question

### 1. What do spices and herbs taste like?

- A. I tasted the following spices from seeds: \_\_\_\_\_,  
\_\_\_\_\_, and \_\_\_\_\_.
- B. I tasted the following herbs: \_\_\_\_\_,  
\_\_\_\_\_, and \_\_\_\_\_.
- C. I tasted a spice from the bark of a tree: \_\_\_\_\_.

### 2. Float (or sink) that Needle

- A. Which sank?
- ☐ The tissue paper sank. ☐ The needle sank.  
☐ The tissue paper and the needle both sank.
- B. After adding the liquid soap, what happened to the needle?
- ☐ The needle sank. ☐ The needle stayed afloat.

### 3. Floating Ice on Top - Water Blobs on Bottom

- A. After watching for several minutes, what happened?
- ☐ Blobs of water fall to the bottom of the glass.  
☐ Blobs of water float with the ice cube.
- B. Why do you think this happened?
- ☐ a. The ice is less dense than cooking oil  
☐ b. The water is more dense than cooking oil  
☐ c. Both a and b are true ☐ d. Both a and b are false

### 4. The Power of Air

What happened?

- ☐ The ruler pops through the paper ☐ The ruler doesn't move

### 5. Knock out that bottom coin

- ☐ I knocked the bottom coin out; the others remained stacked  
☐ I knocked over the entire stack of coins

### 6. Make Oil and Water Mix

- A. Look at the jars after you poured in the water, did the oil and water mix? ☐ Yes ☐ No
- B. After you shake jar number one, what happened?
- ☐ The oil and water mixed and stayed mixed  
☐ The oil and water mixed but soon separated again
- C. After you add liquid soap and shake jar number two, what happened?
- ☐ The oil and water mixed and stayed mixed  
☐ The oil and water mixed but soon separated again

### 7. Wing it!

What happened to the paper?

- ☐ The paper did not move ☐ The paper flopped down  
☐ The oil and water mixed and stayed mixed

### 8. Upside down - but full of water.

What happened to the paper?

- ☐ The water just poured out ☐ The water stayed in the glass

### 9. Disturbing the surface

- A. ☐ The pepper spreads evenly on the surface of the water  
☐ The pepper clumps to the side of the saucer  
☐ the pepper lumps up in the center of the saucer
- B. When touched with the liquid soap
- ☐ The pepper spreads evenly on the surface of the water  
☐ The pepper disperses away from the Q-tip  
☐ the pepper lumps up in the center of the saucer

### 10. Sprouting Carrot Tops

I kept the carrot top watered for \_\_\_\_\_ days.

At that time the new leaves were \_\_\_\_\_ inches tall.