

**FOR YOUR INFORMATION:**

- To participate in the SciWorks Scout Patch Program, groups **must** schedule their outing with the Museum Scheduling Coordinator by calling 714-7105 or sending an email to [scheduling@sciworks.org](mailto:scheduling@sciworks.org).
- The Scout Patch Program may only be completed on **Saturday**.
- To earn patches, scouts must work as a group to complete the necessary number of requirements.
- Groups must have their work approved by a member of the SciWorks' education staff. Ask the front desk to contact a member of the education staff after you have completed the necessary number of requirements for your group.
- Scouts must turn in paperwork (one set) for the whole group instead of individually.

*Revised 4/10*

**Daisies, Brownies, Tigers, Wolves and Bears** must complete 12 of the 25 questions in order to purchase a SciWorks Scout Patch.

**Junior Girl Scouts and Webelos** must complete 16 of the 25 questions in order to purchase a SciWorks Scout patch.

Upon approval, patches may be purchased individually or as a group at the Science Shop. Patches are \$2.50 each.

*To be signed and dated upon completion of the Scout Patch Program:*

**Scout Leader's signature**

---

**SciWorks' Educator signature**

---

**Date**

---



# Scout Patch Program

Please use a separate piece of paper to record your answers. Paper, pencils and clip boards are available at the front desk. Please return these materials to the front desk.

1. Visit the Environmental Park. Make a list of four animals found in the barnyard. What do these animals need to survive?
2. Attend a program in the planetarium. List five things you learned during the show.
3. Join a SciWorks staff member for a saltwater tank feeding, a public program such as 2<sup>nd</sup> Saturday Science or a floor demonstration. Describe something you learned.

## PHYSICSWORKS

4. While riding the bicycle generator, \_\_\_\_\_ energy is being turned into \_\_\_\_\_ energy.
5. What gases fill the plasma tube?
6. Something that absorbs light and releases it slowly is said to be \_\_\_\_\_.
7. What exhibit shows us that the earth rotates?

## MOUNTAINS TO SEA

8. List at least five animals incorporated into the Mountains to Sea mural.
9. The \_\_\_\_\_ of a fish helps the animal detect temperature changes and vibrations in the water. It runs the length of the body from \_\_\_\_\_ to \_\_\_\_\_.
10. What animals do you see in the saltwater touch tank? Describe the remora's unique adaptation.
11. What part of a tree is also called the **sapwood**? It draws water and nutrients up from the ground to the rest of the tree.
12. The number of rings in a cross-section of a bear's \_\_\_\_\_ determines its age.

## BIOWORKS

13. Macaws are very social and vocal birds that live in groups called \_\_\_\_\_.
14. \_\_\_\_\_ are nocturnal rodents from South America.
15. If caught by a predator, \_\_\_\_\_ can detach their tails to escape. Their tails will regenerate.
16. \_\_\_\_\_ are the most common venomous snake throughout their range.

17. A group of quail is called a \_\_\_\_\_.

## SOUNDWORKS

18. What is sound?
19. Play 12 different sounds on the Invisible Strings.

## HEALTHWORKS

20. What are the three types of muscles found in our bodies?
21. Describe these parts of the human cell—cytoplasm, mitochondria and golgi bodies.
22. The small intestine is approximately \_\_\_\_\_ feet long. How is it able to fit inside the abdomen?
23. If the entire DNA in 1 human cell was laid out end to end, it would be \_\_\_\_\_ yards long!
24. There are more than \_\_\_\_\_ kinds of cells in the human body.

## TECHWORKS

25. What objects to you see in the three holograms?