

# Monte L. Bean Life Science Museum Scout Patch

The Monte L. Bean Life Science Museum supports the ideals and principles of both the Girls and Boy Scouts of America. We feel it is essential that people of all ages become aware of the living world around them and how it is important to them on a personal level. The museum is dedicated to educating people about the significance of our living world.



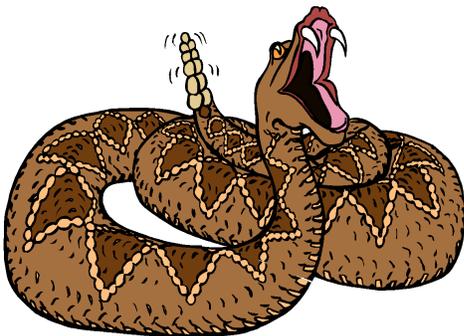
The Museum patch was designed to motivate scouts to gain a greater appreciation and knowledge of the life sciences. By completing the requirements for this patch, scouts can expand their minds, search their interests and gain a better understanding of the living world. As scouts experience the world around them, they will gain a greater appreciation for all forms of life, and they will make new and interesting discoveries about our living world.

## Museum Hours

Monday - Friday  
10:00 a.m. - 9:00 p.m.  
Saturday  
10:00 a.m. - 5:00 p.m.  
Admission is free.

## Contact Information

Monte L. Bean Life Science Museum  
Brigham Young University  
2103 MLBM  
P.O. Box 20200  
Provo, UT 84602-0200  
(801) 422-5050



Live animal shows are offered to the public every evening at 7:30 PM, Mondays at 6:30 and 7:30 PM, and Saturdays at 1:00 and 3:00 PM. Shows for private groups can be requested on our website at [mlbean.byu.edu](http://mlbean.byu.edu)

## Location

The Monte L. Bean Museum is located on the campus of Brigham Young University. It is directly north of the Bell Tower and east of the Marriott Center on 1430 North.

## Enjoy your visit to the Museum!

# In Search of Life

Take a personal “safari” around the museum and learn about our relationship with living things. Use what you learn to answer this worksheet. You should be able to find all the answers in the museum. If you need assistance, please ask for help at the information desk or visit with a museum educator.

## General Questions

1. The study of Life Science is known as \_\_\_\_\_.
2. In what ways does the museum provide an opportunity to study about the living world?
3. The museum allows us to learn about animals and plants from different parts of the world.

Name three kinds of animals and/or plants for each of the following regions:

The Ocean –

Africa –

The Arctic –

4. Explore the exhibit found in the east center atrium (at the main entrance of the museum).  
What conditions allow the earth to support life?

## Principles of Evolution

5. Evolution is the change in inherited traits from one generation to the next.  
List three mechanisms for evolution. You can find this information on the largest wall of the evolution exhibit.
  - a.
  - b.
  - c.
6. How does the fossil record teach us about evolution?

7. What is the difference between natural selection and artificial selection?
  
8. Adaptation is an example of microevolution. Overtime, plants and animals adapt by developing characteristics that help them to survive changing conditions. One example is thick fur that helps animals survive cold winter weather. Can you think of four other examples of animal or plant adaptations?
  - a.
  - b.
  - c.
  - d.
  
9. How would the adaptations you listed above help the animals and plants survive?
  - a.
  - b.
  - c.
  - d.

**Because of Plants...**

10. Name four ways that humans use plants.
  - a.
  - b.
  - c.
  - d.
  
11. Give three examples of how you use plants every day.
  - a.
  - b.
  - c.

## Animal Classes

12. Vertebrates are animals with a backbone. Insects and mollusks are examples of **invertebrates** (no backbone). Name the five classes of Utah vertebrates. You can find this answer in the basement of the museum (west side by the small elevator).
- a.
  - b.
  - c.
  - d.
  - e.
13. The class of animals that is most abundant on earth is not a vertebrate.
- a. Can you guess what it is?
  - b. Why do you think they are the most abundant?
14. Find an animal in the museum with the following characteristics:
- |   |   |
|---|---|
| <input type="radio"/> Has a beak  | <input type="radio"/> Can live up to 100 years  |
| <input type="radio"/> Lays eggs   | <input type="radio"/> Can live in water or on land  |
| <input type="radio"/> Has scales  | <input type="radio"/> Different species can range in size from a few inches to eight feet in length |
| <input type="radio"/> Has part of its skeleton on the outside of its body |   |
- a. Which animal are we referring to?
  - b. Which class of animals does it belong to?

## Why Insects?

15. Name three ways insects are beneficial to humans.
- a.
  - b.
  - c.

## Apex Predators

16. Name an example of a predator/prey relationship.
- a. In this relationship, what behaviors and characteristics help the predator to obtain their prey?
  - b. What behaviors and characteristics help the prey to avoid capture?

**Conservation**

- 17. Name four reasons animals might become endangered.
  - a.
  - b.
  - c.
  - d.
  
- 18. One reason plants and animals are endangered is because their habitats are shrinking. Name one thing that would cause habitats to shrink.
  
- 19. List three plants or animals that are threatened or endangered, and why.
  - a.
  - b.
  - c.
  
- 20. What are some things that you could do to help protect these plants or animals and their habitats?
  
  
- 21. Name three animals that are extinct and why.
  - a.
  - b.
  - c.

**Mind Expansion**

- 22. Name one thing you learned from your visit to the museum today.
  
  
- 23. What are some things you can learn from studying the life sciences?

Name \_\_\_\_\_ Completion Date \_\_\_\_\_

Unit # \_\_\_\_\_ Leader \_\_\_\_\_

Sponsor (e.g. school, church group) \_\_\_\_\_

Museum employee signature: \_\_\_\_\_

# Scout Patch Requirements

To earn the museum scout patch, visit the museum a minimum of two times, fill out the worksheet, watch the stewardship video, and attend an in-house show.

Requirements:

1. First Museum visit: \_\_\_\_\_  
Date
  
2. Second Museum visit: \_\_\_\_\_  
Date
  
3. Stewardship video (26 minutes): \_\_\_\_\_  
(Can also be accessed on the  
museum's website [mlbean.byu.edu](http://mlbean.byu.edu)) Date
  
4. Worksheet: \_\_\_\_\_  
Date completed
  
5. Live Animal show: \_\_\_\_\_  
Date
  - a. Educator \_\_\_\_\_
  - b. Show \_\_\_\_\_

Get a stamp at the information desk after the completion of each requirement.