

Scout's Name: \_\_\_\_\_  
 Date Completed: \_\_\_\_\_ Patch Awarded On: \_\_\_\_\_

## HARBOR LIGHTS



The **Harbor Lights Interest Project** focuses on the watery area surrounding the island including the Mackinac Bridge, Round Island Lighthouse, and the straits. It will help you to learn about the role the water plays in Mackinac Island's history as well as its current state.

### **Requirements:**

To earn an Interest Project Patch, complete at least seven (7) activities: **2 Skill Builders, 1 Technology, 1 Service, 1 Career Exploration, and 2 Additional Activities from any category.** Your finished project must be complete and should reflect your best work. It will be returned to you if these standards are not met and you will be asked to revise and resubmit your badge work for consideration.

### **SKILL BUILDERS**

Activity #1 Completed: \_\_\_\_\_

Date/Advisor: \_\_\_\_\_

Activity #2 Completed: \_\_\_\_\_

Date/Advisor: \_\_\_\_\_

1. The Mackinac Bridge connects Michigan's Upper and Lower peninsulas. Who designed the Bridge? In what year was the Bridge construction completed? How long is the Bridge? Who leads off the annual Labor Day Bridge Walk, and what is the starting and ending point?
2. A strait is a narrow waterway connecting two large bodies of water. Draw a map of the Mackinac straits area showing and labeling land and water features.
3. Two annual yacht races finish their competitions at Mackinac Island. Learn the starting points for each race. Which race covers the longest distance? When are these events held?
4. Ferries provide passenger service to Mackinac Island from both Mackinaw City and St. Ignace. Learn about the three different ferry services Mackinac Island has. What are they? Observe the different procedures that occur at each ferry dock and get a brochure from each one. Make a chart comparing the different rates the ferries charge.
5. Lighthouses were an important part of early navigation of the Great Lakes. Take a picture of the historic Round Island Lighthouse. Learn when it was built and how long it was in active service.
6. The State of Michigan provides marina service on Mackinac Island. How many boats can be docked there at one time? Find out how rental fees are charged. How long may boaters stay? What services are available to users?
7. Ore boats are a common site in the straits area. Learn and explain the meaning of "downbound" and "upbound." What product do these boats generally carry? Where might they be coming from or where could they be going?
8. The Coast Guard maintains a red warning buoy in the waters off Mission Point Resort. Find out what hazard to navigation exists at that spot. With a buddy, ride a bicycle to Mission Point and look for the buoy. Take a picture of the buoy or of you by the buoy and submit it with your completed badge work.

## HARBOR LIGHTS

### **TECHNOLOGY**

Activity Completed: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

1. The newest ferry service to the Island is catamaran. What does a catamaran look like? What makes it different from other boat designs?
2. Lighthouses used to be maintained manually using lanterns. Describe how advances in technology have changed navigation warning systems. Find out what took the place of the Round Island Lighthouse.
3. During the yacht races, sailors often use special sails called spinnakers. What is the purpose of this sail and how is it different from normal sails?
4. Signal flags can be used by boaters as a means of communication. Investigate how letters and numbers are represented by flag design. Learn what message, if any, is displayed by the Visitor Center Signal Flags.

### **SERVICE**

Activity Completed: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

1. Put together a presentation, display or promotional flyer that can be shared with younger Girl Scouts telling them about the Straits of Mackinac and harbor areas.
2. Volunteer to be responsible for getting someone else's bicycle on the ferry and up to the Scout Barracks or vice versa.
3. Because the signal flags are all connected to each other, they have to be re-folded almost daily. Learn from an experienced scout how to fold the signal flags properly, and then volunteer to fold them before flags one morning. Who taught you to fold the flags? What procedure did you use? How does re-folding the flags each morning help to make raising them successful?

### **CAREER EXPLORATION**

Activity Completed: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

1. Find out what it takes to become either an architect or structural engineer. What do they generally do? How have they worked on Mackinac Island? Please provide some examples.
2. Research a job you might be interested in which is related to the travel or tourist industries on Mackinac Island such as a tour guide, historical house interpreter, carriage driver, ferry worker, etc. Write a paragraph about the job you have chosen.

### DOCUMENTATION FOR ADDITIONAL ACTIVITIES COMPLETED (IF ANY)

Category	Activity Completed	Advisor Review	
		Date:	
		Advisor:	
		Date:	
		Advisor:	