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Pathfinder's Name

## Lighthouses

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1. Describe the following in detail concerning lighthouses:

a. What is the function of a lighthouse?

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b. When were the first lighthouses of record built?

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c. What is the name of the most famous ancient lighthouse?

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d. What are people called who study lighthouses? Why?

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e. Do all lighthouses have keepers? If not, how are they run?

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2. Research the structure and function of Fresnel lenses. Explain what makes these lenses so effective.

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- 3. Throughout history, what fuels were used for lighthouse lights?

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- 4. Are all lighthouses located along ocean shores? If not, list other locations where you would find a lighthouse.

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- 5. What is the lighthouse service called in your country? What organization or branch of government is responsible for maintaining lighthouses in your country?

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- 6. When a lighthouse is a visible landmark seen from the ocean during the day it can be identified by certain markings. What are these called?

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- 7. What is a foghorn? Why would one be used at a lighthouse? What are three things that affect how far away a foghorn can be heard?

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- 8. Since lighthouses are often called “lights, explore the concept of “lights” in scripture by doing the following:
  - a. Look in the Bible Concordance to find “lights” and discuss lights as referred to in the Bible

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- b. Explain why you think God’s word is like a lighthouse.
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- c. Memorize John 8:12.

- 9. Write a poem or a story about a lighthouse light. Include thoughts of God’s “light”. Read your story or poem to your group.

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- 10. Draw or photograph five lighthouse forms/types being used today.

- 11. Do one of the following:

- a. List the names and locations of 5 lighthouses in your state / province.

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- b. Locate on a map the location of 10 lighthouses in your country / division

- 12. List the references you used to learn about lighthouses.

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## Lighthouses, Advanced

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- 1. Have the Lighthouses Honor
- 2. Make a scrapbook including the following:
  - a. Pictures, post cards or drawings of twenty-five lighthouses. Label should include a brief description of: location, year built, active / non-active status, and order of the lens.
  - b. Write up a short history of the above lighthouses.
  - c. Include drawings/pictures and answers to all the requirements for this honor in your scrapbook.
- 3. List the development of a Fresnel lens, including: Name of the gentleman that invented it, country that he came from, year developed.  

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- 4. Draw a Fresnel lens: Show how prisms are used to concentrate light, draw a bull's eye lens and state its purpose.

- 5. Make a chart showing each class of Fresnel lens:
  - a. Define order and list by size
  - b. Name at least one lighthouse using each order
- 6. Research and describe the history of the mechanism for rotating lights.

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- 7. Make a chart of six lighthouses showing nighttime (light) and daytime (day mark) signature.
- 8. What is a lightship? Why and where are lightships needed?

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- 9. Read about lighthouse keepers and list some of the hazards they faced in completing their duties.

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- 10. Study quotes by Ellen White mentioning lighthouses and discuss the meaning. Place a copy of the quotes in your scrapbook.
- 11. Obtain a “Lighthouse Passport” and have it stamped at 10 different lighthouse locations.
- 12. Build a lighthouse modeled after a real lighthouse using a lighthouse kit, wood, or other medium. Know the name, location, and date when the actual lighthouse was originally built.

Make a chart of six lighthouses showing nighttime (light) and daytime (day mark) signature

	Night Time	Daytime
Lighthouse 1		
Lighthouse 2		
Lighthouse 3		
Lighthouse 4		
Lighthouse 5		
Lighthouse 6		