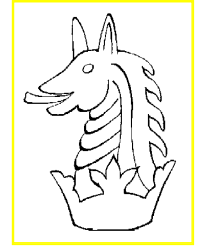




Diamond Class English Planning
Summer 2 Week 8 + 5 days
How Does a Lighthouse Work? By Roman Belyaev



The next book we will be looking at is 'How does a lighthouse work?' by Roman Belyaev. It is a non-fiction book which explores lighthouses across the world and how they have changed over time. There is enough work for 7 days but school holidays do start on Wednesday so please don't think you have to complete all the lessons – though you can if you want to! You will be making your own book all about lighthouses so should take care in your presentation. Each page must have a title and subheadings if relevant. You can use a computer program like word or use paper for these activities. Don't forget to print out your finished work!

Week 1

	Learning Objectives	Introduction	Activity
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To explain why lighthouses are needed.

Read to this page.



Think about all the information given on these pages about why lighthouses are needed. Where are they located and why? What would happen if they were not there?

Write about why lighthouses are needed, including details of the dangers they protect from and how they help navigation.

Use the title 'Why lighthouses are needed'. Use the file 'explanation text checklist' to help you.

C1: I can write at least three sentences explaining why lighthouses are needed.

C2: I can write at least six sentences explaining why lighthouses are needed.

C3: I can write a paragraph explaining why lighthouses are needed.

*C I can write an extended piece using subheadings and diagrams if appropriate.

If you have time, you could draw and label a picture of a coastline showing the dangers faced by sailors. Draw the location of the lighthouse and label rocky points and rip tides.



To explain how a lighthouse warns passing ships in all weathers.

Read to this page.



The light on a lighthouse is clearly very important and how the light was made has changed over the years. Sometimes a light is not enough. Fog makes it harder to see the light. Think about how the light emitted from the lighthouse has changed over the years and how science has played a part in improving this. Also consider what happens when the light is not enough. What other ways have been used to warn sailors about the danger? Use a title such as 'Danger!' or 'Warning'. You might have another title in mind. Use the checklist from yesterday to help. Include diagrams or pictures if you wish and make sure you label them or give them a title. Subheadings might be useful e.g. 'Light' and 'Sound'.

C1: I can write at least three sentences to explain how a lighthouse warns passing ships in all weathers.

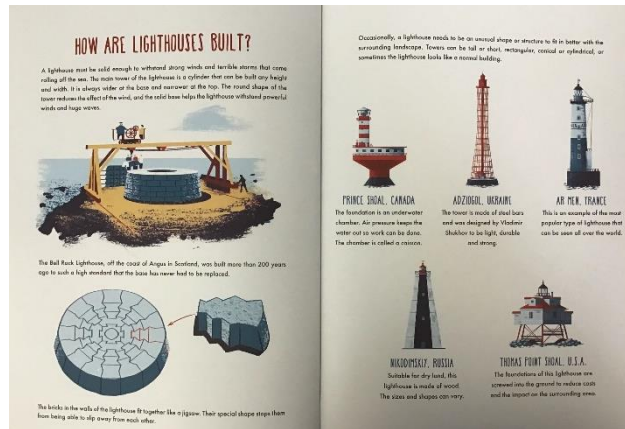
C2: I can write at least six sentences to explain how a lighthouse warns passing ships in all weathers, including subheadings.

C3: I can write a paragraph to explain how a lighthouse warns passing ships in all weathers, including subheadings and diagrams/pictures.

*C: I can write an extended piece to explain how a lighthouse warns passing ships in all weathers, including subheadings and diagrams/pictures.

To write a fact file to explain how lighthouses have changed over time.

Read to this page.



Think about everything you have read so far about how lighthouses have changed over the years. How has the light changed? How they were built? Where they were placed and why.

You are going to create a fact file for the history of lighthouses. You could use a title such as 'Lighthouses through the ages'. You can use the fact file activity sheet to help you if you want. Otherwise, you are free to choose the layout as you wish. Separate information into 'chunks' using subheadings, diagrams, pictures and timelines. You could include a fact box for any interesting facts. The page 'Does a lighthouse have one big lamp?' would be good to look at if you want to make a timeline.

C1: I can create a fact file of at least three facts and a diagram/picture.

C2: I can create a fact file of at least six facts and a diagram/picture.

C3: I can create a fact file of at least six facts and a diagram/picture and subheadings.

*C: I can create a fact file clearly separated into subheadings and include diagrams/pictures and a timeline.

To create a logbook for a lighthouse keeper.

Read to this page.



I want you to imagine that you are a lighthouse keeper and you are keeping a logbook. Think about what life would be like in the lighthouse alone. What jobs does the keeper have to do? Cleaning and lighting the lamp is an important job but what else does the keeper do? Where do the supplies come from? How does the keeper get food, coal or other fuel? How does the keeper travel to and from the lighthouse? Does the keeper observe and record the weather? What would the keeper do in an emergency situation?

Write a logbook for a day in the life of a lighthouse keeper. A simple log book would look like this.

Happisburgh lighthouse logbook	
Date: 6 th February 1845	
Time	Notes
7.00	Cleaned soot from lens and windows.
7.30	Removed ash.
8.00	Took the boat to the mainland to collect supplies - 20 bags of coal and food for a week. Storm due to hit this evening.

You can create a logbook with the usual duties or you could include something dramatic like a storm or a shipwreck. The lighthouse keeper would also rescue sailors if the worst did happen. Maybe the keeper gets stranded for days by a storm.

Make sure your date matches the entries. If your logbook is in the 1800s, then you can't have electricity! Check the page 'Does a lighthouse have one big lamp?' so you know how the lighthouse was lit for the date you choose.

C1: I can create a logbook with at least six entries.

C2: I can create a logbook with at least eight entries.

C3: I can create a logbook with at least ten entries.

*C I can create a logbook with multiple entries and an unusual event.

To create a fact file for a lighthouse.

Read to this page.



Lighthouses come in very different shapes and forms. Did you know the Statue of Liberty was once a lighthouse?

Today you are going to research a lighthouse and create a fact file for it. Google 'famous lighthouses' or 'oldest lighthouse' etc and find one that interests you. Collect information such as, where it is, how old it is, is it currently working or what is its history? Are there any interesting stories about pirates, storms or shipwrecks? Print out a picture of it if you can, or paste into word if working on your computer.

Create your fact file using the template, in word or on paper. Don't forget to give your work a title.

C1: I can create a fact file of at least three facts and a picture.

C2: I can create a fact file of at least six facts and a picture.

C3: I can create a fact file of at least six facts and a picture and subheadings.

*C: I can create a fact file clearly separated into subheadings and include pictures.

Learning Objectives

Introduction

Activity

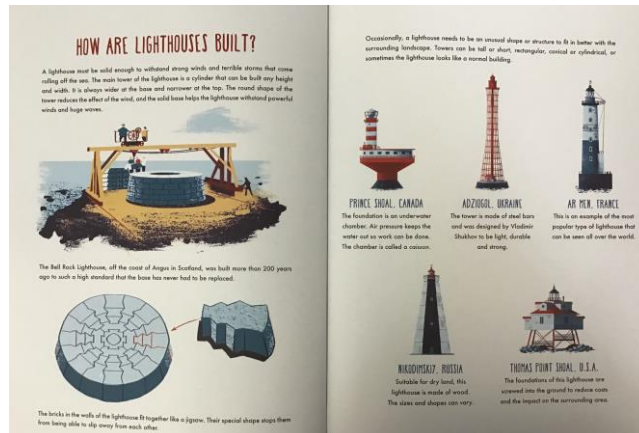
To design a lighthouse using factual information.

You can now read to the end of the book.

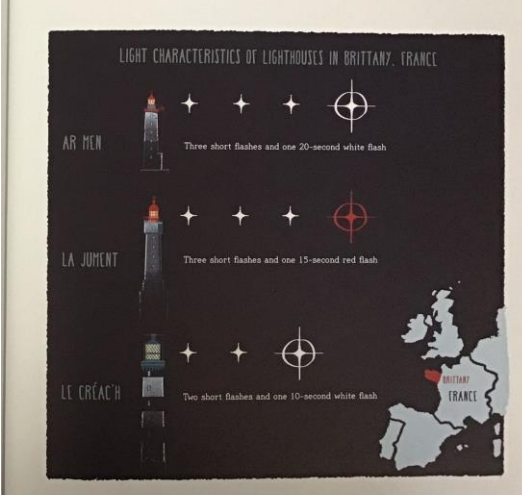
Follow the instructions on the last page to design your own lighthouse. In addition, consider how the lighthouse keeper will get to the lighthouse and where the door will be. Will you need ladders or pulleys? A helicopter pad, pier or boat? What source will the light have – coal, candles, gas, oil or electricity? Draw your lighthouse with lots of detail and label it. For higher challenge levels include a short explanation with your label e.g. gas lamp with optic lens. Do you remember reading that lots of lighthouses are named after shipwrecks? Create a name for your lighthouse and use it as your title.



Look at this page for ideas about lighthouse design before you begin the task.



- C1: I can design a lighthouse using information from a non-fiction text and label it.
- C2: I can design a lighthouse using information from a non-fiction text, including details such as transport to the lighthouse.
- C3: I can design a lighthouse using information from a non-fiction text and label it in detail, including information such as transport to the lighthouse.
- *C I can design a lighthouse using information for a non-fiction text and label it in detail, including information such as transport to the lighthouse and source of light.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Day 7</p>	<p>To provide additional information for a lighthouse.</p>	<p>Today, you are going to create an additional information page for your lighthouse. You are going to create your own light pattern for your lighthouse and draw it. Look at this page to help you.</p> 	<p>Draw and label the lighthouse signal in the top half of the page. On the bottom half of the page, can you include how the lighthouse was built using the information from the book? Include a diagram or picture. Otherwise fill this space with additional information of your choosing about your lighthouse. Once you have done this look at the additional activities to create a contents page and/or glossary for your book.</p> <p>C1: I can include one piece of additional information, using a diagram. C2: I can include two pieces of additional information, using a diagram. C3: I can include two pieces of additional information, using a diagram and detailed annotations. *C: I can write an extended piece including diagrams, detailed annotations and explanations for the diagrams.</p>												
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Additional activities</p>		<p>Once you have completed all of the daily tasks, gather together your pages and include a front cover using card if you have it. Complete any of the additional activities if you have time and include them with your pages. Staple together and then create a front cover for your book including, title, author and illustrator.</p>	<p>If you have time, create a contents page and/or glossary of all the terms you have found out about in the book. A contents page should look like this. It goes at the front of the book.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">Contents</td> </tr> <tr> <td style="text-align: left;">Why are lighthouses needed?</td> <td style="text-align: right;">p1</td> </tr> <tr> <td style="text-align: left;">Danger!</td> <td style="text-align: right;">p2</td> </tr> </table> <p>And a glossary like this. It should be in alphabetical order and it goes at the back of the book.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">Glossary</td> </tr> <tr> <td style="text-align: left;">Skipper</td> <td style="text-align: right;">Captain of a ship.</td> </tr> <tr> <td style="text-align: left;">Watch room</td> <td style="text-align: right;">The place where the lighthouse keeper keeps watch on the sea at night.</td> </tr> </table>	Contents		Why are lighthouses needed?	p1	Danger!	p2	Glossary		Skipper	Captain of a ship.	Watch room	The place where the lighthouse keeper keeps watch on the sea at night.
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