



Ardagh's Challenge



This is John Charles Ardagh. He designed Newhaven Fort.

Use this booklet to explore the fort and discover as much as you can about its history.

The answers to the questions are all around you.

Before the Fort

Believe it or not, this Fort wasn't always here on the clifftop but this doesn't mean that nobody else had noticed what a good spot we have here for a fortification. To answer the following question you should watch the introductory film in the **Theatre** and visit the **Lost Fort** exhibition.

When was the earliest fort built on Castle Hill?

- a. The Stone Age b. The Bronze Age c. The Iron Age

How old is the Fort?

There are clues all round to help you work this out, but a good place to start is the **History of the Fort** exhibition. Look around in here to find the answers to these questions.

How old was Lieutenant Ardagh when he designed Newhaven Fort?

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In what year did building work on the Fort begin?

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Why was the Fort built?

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What materials were used in the construction of Newhaven Fort?

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Find this model of the Fort and listen as Lieutenant Ardagh talks you through his construction plans.



How was the fort defended from attack?
(Hint - there is more than one answer to this question!)

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So, now you know how old the Fort is, let's find out about life in the Victorian army. You'll find the answers to these questions in the **Life in the Fort** exhibition.

Can you find out what a 'barrack rat' was?

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Look out for the 1891 census list. This shows who was living in Newhaven Fort on 5th April 1891.

How many Gunners are on the list?

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What is a Gunner?

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What other ranks of soldiers can you find listed on the census?

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Are there any people who aren't soldiers? Who are they?

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Can you find this bugle?



Victorian soldiers had to learn lots of bugle calls as this was how they knew what time of day it was and what they were supposed to be doing.

Can you name some of the bugle calls they might have heard?

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Now it's time to explore some of the features of the fort that Lieutenant Ardagh was telling you about earlier. Have a walk up to the **Grand Magazine**. This was the original gunpowder store for the Fort.

How many barrels of gunpowder could be stored here?

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Where was the gunpowder taken to be loaded into shells?

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What happened in the shifting lobby?

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Why was it dangerous for clean area shoes to collect grit?

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What was the purpose of the lighting passage and why was it necessary?

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While you're in the Grand Magazine, watch the **Hidden Fort** film.
What was the Battery Observation Post (BOP) used for?

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The BOP was the first place in Newhaven to have which exciting new piece of technology?

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What were the musketry and counterscarp galleries originally used for?

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Who used the north west counterscarps for recreation rooms during the Second World War? And what did they do to the walls?!

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When you've finished in the Grand Magazine go outside and look for the **6-inch gun**. Guns like this one replaced the original guns that were installed in Ardagh's fort. In what year was this gun emplacement first built?

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How many people were needed to fire a 6-inch gun like this one?

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When you come back down from the clifftop you will find the entrance to the **Caponier** on one corner of the parade ground. Just inside the entrance you will find a board showing some original plans of the caponier.

Look for this feature on the plans.

What does this represent?

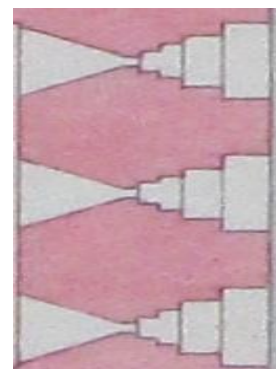
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How many of these are there?

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What are they for? *If you need help, try thinking back to the Hidden Fort film*

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The same board also tells you about the **Eastern Magazine**. What was this used for?

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The rooms above the Eastern Magazine are now our First World War display but what were they when the Fort was first built?

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