

# Materials of the *Mary Rose*

## Teacher's Guide – Key Stage 1 & 2

At the Mary Rose Museum, pupils are introduced to new scientific methods to unlock the secrets of the past. We explore specialist vocabulary before pupils undertake their own enquiries into the materials used on the ship. This includes a unique opportunity to use microscopes to closely examine real artefacts. Pupils are encouraged to think like a museum curator to explore comparisons between different time periods and use their judgement regarding the type of materials used.

Skills Covered:

- Setting up scientific enquiries.
- Understanding change and continuity.
- Exploring contrasting views of the past.

Links to the aims of the National Curriculum for Science (KS1 & 2)

- 'asking relevant questions and using different types of scientific enquiries to answer them'.
- 'setting up simple practical enquiries'.
- 'reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations'.
- 'identifying differences, similarities or changes related to simple scientific ideas and processes'.

Links to the subject content of the National Curriculum for Science (KS1 & 2)

- 'identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock'. [KS1]
- 'describe the simple physical properties of a variety of everyday materials'. [KS1]
- 'compare and group together a variety of everyday materials on the basis of their simple physical properties'. [KS1]
- 'identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses'. [KS2]
- 'compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets'. [KS2]
- 'give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic'. [KS2]
- 'research and discuss how chemical changes have an impact on our lives'. [KS2]

- ‘Pupils should explore examples of human impact (both positive and negative) on environments’. [KS2]

### Links to other areas of the National Curriculum:

**History:** ‘a study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality’.

**History:** ‘understand how our knowledge of the past is constructed from a range of sources’.

### Expanding the Learning:

Here at the Mary Rose we understand the importance of making the most of educational trips and giving students experiences and memories to last. We aim to support teachers in giving their students the chance to reflect upon their time here at the museum and relate that to their classroom work to make it more fun, enjoyable and memorable.

The following are some ideas for classroom activities that could aid students in recalling what they have learnt here at the Mary Rose Museum and to solidify that understanding.

Students can...

- Find modern equivalents of the objects they studied and compare the materials.
- Have a class debate on the question ‘Were the Tudors more environmentally friendly than us?’
- Explore the properties further by finding examples in your classroom.
- Design a modern environmentally friendly version of the *Mary Rose*. What would you do differently? What materials would you need?
- Find out about some of our science heroes, like Dr Eleanor Schofield, our Director of Collections and Materials expert!
- Print out some of your favourite pictures of the *Mary Rose* and cover each one with a different material. Then test them to find out the best waterproof material.
- Perform a basic rust experiment – such as [https://www.fizzicseducation.com.au/150-science-experiments/kitchen-chemistry-experiments/rusty-nail-experiment/?srsId=AfmBOooVf042APFG7oP\\_NqxnwmHKsk8i40e0OSs5Dw1umDYRFY4-9b8J](https://www.fizzicseducation.com.au/150-science-experiments/kitchen-chemistry-experiments/rusty-nail-experiment/?srsId=AfmBOooVf042APFG7oP_NqxnwmHKsk8i40e0OSs5Dw1umDYRFY4-9b8J)