

Introduction to Museum in a Box – STEM

OVERVIEW

This box is designed to be used for **Year 5 – 8 students**. You can tailor your delivery of the box based on the level of your students and the time you wish to spend on the challenges.

There are **five challenges** based around the science and technology used on Royal New Zealand Navy (RNZN) ships – helicopters, cranes, jackstay lines, hull design and uncrewed vessels.

The suggestion is to complete the introductory activity Meet the Fleet first before moving onto the challenges. The challenges can be completed in any order. Each one is an individual activity and they can be done in isolation or as a complete unit of work.

Ensure you read the risk assessment before you complete each challenge. These have been designed to be completed in a classroom setting under adult supervision. You may want to try the challenge(s) yourself before you carry them out with your students.

EQUIPMENT

There is enough equipment supplied for **10 groups to carry out each challenge**. Ideally each challenge should be done in **groups of 2-4 students**, but could also be done individually.

In the supplied teacher instructions the symbol means the equipment is supplied in the box, and the symbol means the school needs to supply the equipment.

Some challenges require more teacher preparation than others. Here is a list of the challenges from the least amount of preparation to the most:

1. Operation Big lift
2. Operation Helo
3. Operation Jackstay
4. Operation Float
5. Operation Claw

Each activity has teacher slides that can support you in presenting the instructions to the students.

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MEET THE FLEET

Meet the Fleet is designed to be the **first activity to introduce your students to the ships of the Navy**.

You could start by having a class discussion on what the students think the Navy does. They could watch some of the **videos on the Museum in a Box – STEM website**, Meet the Fleet page.

The ID cards can be used to help introduce the students to the ships.

Every Navy ship has its own badge. The surround for every badge is the same and has a crown and fern leaf. The main design is unique and is usually linked to either the ship's name or its role in the fleet. There is a little more information about each badge on the ID cards.

If your school has its own badge this is a natural link to start a conversation around badges and their meaning.

There is a **badge surround template included in the box** (and also available on the website) so students could be asked to design a class badge, a team badge or even re-design their school badge. This could provide an opportunity to **discuss class or school values** and how they could be represented using symbols.



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IN A BOX STEM**