

200 Years of the RNLI 1824 - 2024



The Isle of Wight RNLI Lifeboat Board (Est. 1859)

Bicentenary Island Schools Project



- Projects to run from September 2023 to March 2024
- For KS1, KS2 and KS3 students
- Submissions by 31 March 2024
- Final judging and demonstration May 2024





RNLI ISLE OF WIGHT 200 SCHOOLS PROJECT

KS1: (PSHE – Keeping Safe)

Theme: “Be Safe by water and the Sea”

Objective “Understand about floating”

Resources:

RNLI: “Water Safety Passport 1” 30 minute lesson project

<https://rnli.org/youth-education/education-resources/lower-primary/water-safety-passport-1>

RNLI: “To the Rescue” 30 minute lesson project

<https://rnli.org/youth-education/education-resources/lower-primary/to-the-rescue>

Twinkl:

<https://www.twinkl.co.uk/resource/ks1-ages-5-7-activity-video-building-a-boat-t-tp-1654846794>

Project: Learn about floating. Collaborate as a group to build a floating lifeboat and show how much weight it can carry. How do people float? Can you float in water? Why is floating important to stay safe?

Make a boat (no more than 60 centimetres long). You could use cardboard covered in plastic, or wood or maybe a cut-out plastic milk bottle. Weigh it on some scales. Then collect bags of pennies or 2p pieces and see how much your boat can carry. Make a note of how heavy the boat is and how much weight it can hold.

We’d like you to send us a picture of your boat (maybe decorated with your school or class name, or even painted like a real lifeboat). Keep your boat safely and we’ll let you know when we will hold a “float off” to judge the best boats on the Island!

You can also learn how important it is to learn to float if you find yourself unexpectedly in cold water.

To enter your KS1 class or year group, please e-mail: schools@isleofwightlifeboatboard.org.uk with details of your class name, and your school e-mail contact address



RNLI 200 – ISLE OF WIGHT SCHOOLS PROJECT

KS2 Science (Y5: Forces – air/water resistance)

Theme: “Efficient sailing boats

Objective: “Understand how boats sail”

Resources:

RNLI: “Boating through the ages” 60 Minute lesson project

<https://rnli.org/youth-education/education-resources/upper-primary/boating-through-the-ages>

Stick Science:

<https://www.youtube.com/watch?v=FCcKeOmYHFY>

Project: For many years, before engine power arrived, lifeboats were made with oars and sails.

Build us a sailing lifeboat boat and fit it with one or more sails. Try an experiment to see how fast it moves with different sails.

You could make your boat out of cardboard covered in plastic or painted to make it waterproof. Maybe you could cut up a plastic milk bottle? Use balsa wood? Don’t make it longer than 60 centimetres. You’ll probably need to put some weights (like pennies or 2p pieces) on the bottom to balance out the mast (a stick?) and sail (piece of old handkerchief?).

Now you need to find a big sink or a shallow pond where you can time your boat over a small distance. Indoors you could blow it along or use a small fan to make some wind (but keep it away from the water!).

Send us a picture of your boat sailing. Keep your boat safe and we will let you know when we are going to have a “sail off” to see which boat models are the best on the Island.

You can also learn how important it is to stay safe on the shore and in the sea, and how the Lifeboats can now reach people much more quickly than when they relied on sails and oars.

To enter your KS2 class or year group, please e-mail: schools@isleofwightlifeboatboard.org.uk with details of your class name, and your school e-mail address



RNLI ISLE OF WIGHT SCHOOLS PROJECT

KS3 Science (Physics: Forces and moments)

Theme: “Making safe Lifeboats”

Objective: Learning about centres of gravity and balance

Resources:

RNLI: “How do lifeboats self-right?” (News and Features November 2021)

<https://rnli.org/magazine/magazine-featured-list/2021/november/how-do-lifeboats-self-right>

Procaptains:

<https://procaptains.org/stability>

Maritime Page:

https://maritimepage.com/how-does-a-self-righting-boat-work/?utm_content=cmp-true

Project: Make a self-righting Lifeboat. Please build a self-righting lifeboat which will return to an upright position from any angle, including upside down.

Please build a Lifeboat up to 60 cm long. You can use cardboard covered in plastic or painted to make it waterproof, or wood like balsa, even Lego bricks. Or you could cut up a large plastic bottle. You will need to attach some weights (like coins or washers) to the bottom as a keel, and also create an airtight “crew compartment”. Don’t forget that the crew will have some weight too. Do some experiments to see how your boat behaves in water and whether the crew will be safe in all weathers.

Please send us a picture of your completed self-righting lifeboat and keep it safely. We will let you know when we will have a “capsize competition” to judge the best boats on the Island.

You could also learn how to stay safe in the sea and how waves can be very dangerous.

To enter your KS3 class or year group, please e-mail: schools@isleofwightlifeboatboard.org.uk with details of your class name, and your school e-mail address