



Scottish
Maritime
Museum

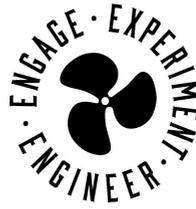
Schools

Irvine and Dumbarton
From January 2019



At a glance ...

Choose your Museum:
Irvine or Dumbarton?



Will you visit for a full or a half day? Alternatively, we can come to you!

Choose a workshop to suit your topic and pupils' learner levels.

Add some self-led trails, guided tours or handling sessions.

Call our education team to discuss and book your visit on **01294 278283**.

How to use this guide

Also available as an outreach session

Length of session

Typical age range

Curriculum for Excellence links

STEM session

Session description

Full Steam Ahead!
P5 - S1 (1 hour)
Dive into the world of forces and steam power by investigating gravity, friction and what makes our huge engines move. A hands-on STEM workshop exploring fantastic forces!
EXA 2-03a, SCN 2-04a, TCH 2-10a

Introduction

The Scottish Maritime Museum is based in the West of Scotland with sites in **Irvine** and **Dumbarton**.

The Museum holds an important nationally recognised collection encompassing a variety of historic vessels, artefacts and fascinating personal items as well as the largest collection of shipbuilding tools and machinery in the country.

At our **Irvine** site, explore the Linthouse, Scotland's 'Cathedral of Engineering', a vast Grade A listed 19th century shipyard building. Climb aboard the MV *Kyles*, the oldest Clyde-built vessel still afloat in the UK, and discover our shipyard worker's tenement flat. You can also have time to visit our temporary exhibitions.



In **Dumbarton** on the River Leven by the Clyde, visit the Denny Ship Model Experiment Tank, the first commercial tank in the world, and discover the scientific and engineering innovations of the influential shipyard. See first-hand how ship designs were tested and visit our new hands-on *Engage, Experiment, Engineer* gallery.



On their visit, pupils of all ages can:

- Investigate local and national **history**.
- See **STEM** principles in action.
- Handle real historical objects.
- Enjoy **storytelling & outdoor learning**.
- Be curious, creative and inspired.
- Experience a fun and interactive visit led by our friendly, trained and knowledgeable staff.



Irvine | Plan your visit

School visits typically begin at **10am** and finish at **2pm** and can include a mixture of **guided tours**, time in our exhibitions, hands-on **workshops** and **trails** and time for lunch.



Guided tours



< Shipyard worker's flat

All levels (30 minutes)

It's wash day in the Edwardian Shipyard Worker's Flat! Pupils will put on their caps and aprons to experience what daily life was like in a 1920s tenement. Smell the carbolic soap and play with some old toys!

SOC 0-01a, SOC 0-04a

SOC 1-02a, SOC 1-04a

SOC 2-04a

Harbourside walk

Nursery - P4 (30 minutes)

Grab your binoculars and clipboard and head down to Irvine's historic harbourside. Look across the Bogside Flats SSSI and spot some local wildlife.

SOC 0-07a, SOC 0-08a

SOC 1-07a

MV Kyles >

All levels, dry weather (45 minutes)

Climb aboard the oldest Clydebuilt vessel still afloat in the UK and find out what life was like living and working aboard a ship.

SOC 0-04a

SOC 1-03a, SOC 1-04a

SCN 2-08b, SOC 2-04a, SOC 2-09b,

TCH 2-05a

Fitting shed

P4+ (30 minutes)

See, hear and smell the inner workings of some industrial-sized engines and think about the underlying science and technology innovations.

SCN 2-07a, TCH 2-12a



Irvine | Your visit

Teacher-led trails

Curriculum-linked trails allow you to explore the museum at your own pace.

Maritime Maths Trail

P2 - S3 (45 minutes)

Maths is everywhere, even in museums! Explore patterns, geometry, symmetry and much more in this exciting trail catered to learner levels. *MNU 1-01a, MNU 1-03a, MNU 1-11a, MNU 1-11b, MTH 1-17a, MNU 1-20b, MTH 2-07a, MNU 2-11a, MNU 2-20b*



Pirate Treasure Hunt

Nursery - P3/P4-P7(30 minutes)

Armed with a compass and a map, hunt around the museum until X marks the spot. What's going in your treasure chest?

MTH 0-17a

MTH 1-17a, MTH 1-18a



Example schedules, full/half day

Full day, e.g. Level 2

- 10.00 *Arrive and introduction*
- 10.15 *Tour of the MV Kyles*
- 11.00 *Tour of the Shipyard Worker's Flat*
- 11.30 *Buoyant Adventures workshop*
- 12.30 *Lunch break*
- 13.00 *Maritime Maths trail*
- 13.45 *Time to visit the gift shop*
- 14.00 *Depart*

Half day, e.g. Nursery

- 10.00 *Arrive and introduction*
- 10.15 *Lighthouse Keeper's Lunch workshop*
- 11.15 *Harbourside walk*
- 11.45 *Depart*

<The Rat Trail

Nursery - P3 (30 minutes)

Find our seven sneaky rats hidden around the museum! Each of them has a different maritime job. Which job would you like best?

Your school may be eligible for up to **£250 towards travel**, see pg 10 or contact **01294 278283** or **education@scotmaritime.org.uk**

Dumbarton | Your visit



New gallery
now open!



Supported by funding from
**Museums
Galleries
Scotland**
Supporting Scotland's Museums

Scheduled visits include a mixture of **guided tours**, time to explore our exhibitions, hands-on **workshops** and time for lunch.

Tours and trails

The Tank Tour >

All ages (45 minutes)

See the famous Denny Tank in action and learn about historical world famous discoveries and innovations from the Dumbarton shipyard.

SOC 0-01a, SOC 0-04a, SCN 0-20a /

SOC 1-02a, SOC 1-04a /

SOC 2-04a, SCN 2-07a, TCH 2-12a



Maritime Maths Trail

P2 - S3 (30 minutes)

Maths is everywhere, even in museums! Explore patterns, geometry, symmetry and much more in this exciting trail catered to learner levels.
MNU 1-01a, MNU 1-03a, MNU 1-11a, MNU 1-11b, MTH 1-17a, MNU 1-20b / MTH 2-07a, MNU 2-11a, MNU 2-20b



The Elephant Trail

Nursery - P3 (30 minutes)

Find our seven sneaky elephants hidden around the museum!

Story of a Ship Trail

P5 - S3 (45 minutes)

Follow the story of a ship model from the original idea through experimentation, building and launch as you make your way round the Museum.

SOC 2-03a, SOC 2-06a, SCN 2-20a



Example schedules, full/half day

Full day, e.g. Level 1

- 10.00 Arrive and introduction
- 10.15 Tour and demo of the Tank
- 11.00 Under the Sea workshop
- 12.00 Lunch break
- 12.30 Story of a Ship trail
- 13.15 Time in our new 'Engage, Experiment, Engineer' gallery
- 13.45 Gift shop and depart

Half day, e.g. Level 2

- 10.00 Arrive and introduction
- 10.15 The Tank Tour
- 11.00 Scottish Shipbuilding w/shop
- 12.15 Depart

Workshops | at both sites

Experience an interactive, hands-on learning experience focused on **STEM**, **Social Studies** and **Expressive Arts** inspired by objects and stories from our collection.

Under the Sea

Nursery - P2 (1 hour)

Join Angie the Anglerfish as we journey from the beach to the deep sea exploring different habitats and objects we find in and around our oceans in this interactive STEM story. Next we will investigate the objects we find. Do they float or sink? Are they living or not? Do they belong in the sea?

SCN 0-01a, SCN 0-15a, SOC 0-08a, TCH 0-10a



^ Lighthouse Keeper's Lunch

Nursery - P3 (1 hour - 90 minutes)

Our most popular early primary workshop based on the book by Ronda and David Armitage. Join Mr and Mrs Grindling and try to keep today's lunch away from those pesky seagulls!

First design, make and deliver a delicious lunch for Mr Grindling, investigate which material is best to use for Mr Grindling's picnic basket and build a lighthouse as a class!

EXA 0-02a, LIT 0-04a, TCH 0-10a / EXA 1-02a, LIT 1-04a, SCN 1-07a, TCH 1-10a



Katie Morag and Island Life

PI - P3 (1 hour)

Using Katie Morag stories as a stimulus, pupils will learn about life on Scottish islands by examining boat models, our puffer MV *Spartan* and items from our collection - a fun storytelling session!

SOC 1-02a, SOC 1-14a, TCH 1-11a, HWB 1-20a / HWB 2-20a



Workshops | at both sites

How the Pirates Turned the Tide

P2 - P4 (1 hour)



Ahoy landlubbers! Based on the wonderful new picture book by local author Greta Yorke, pupils will investigate recycling and keeping our oceans clean, all with a piratey theme! Arrrrrr!

TCH 1-06a, TCH 1-10a, SCN 1-15a / TCH 2-06a, TCH 2-10a

Scottish Shipbuilding

P4 - P7 (75 minutes)



Combine STEM and Social Studies in the story of Scottish shipbuilding and its importance to the lives of people in Irvine and Dumbarton. This includes object handling and an investigation into different ways to power a ship and the forces involved. Pupils will design and test their own vessel on our pond (Irvine) or mini test tank (Dumbarton).

SOC 2-01a, SOC 2-02a, SOC 2-06a, SCN 2-07a, TCH 2-09a

Living in a Tenement Flat

P3-P7 (30 minutes, Irvine only)

Taking place inside our 1920s tenement flat, step back in time to find out what life would have been like. Investigate real historic records to find out who lived there? What did they wear? What jobs did they have? Think

object handling and dressing up!

SOC 1-02a, SOC 1-04a / SOC 2-04a

Buoyant Adventures

P4 - P7 (1 hour)



Explore buoyancy, density, floating, sinking and the science behind the world's first 'Eureka!' moment in this interactive STEM workshop.

SOC 2-02a, SCN 2-08b, SCN 2-20a

Full Steam Ahead!

P5-S1 (1 hour)



Dive into the world of forces and steam power by investigating gravity, friction and what makes our huge engines move. A hands-on STEM workshop exploring fantastic forces!

EXA 2-03a, SCN 2-04a, TCH 2-10a



Titanic: The Unsinkable Ship

P4 - P7 (1 hour)

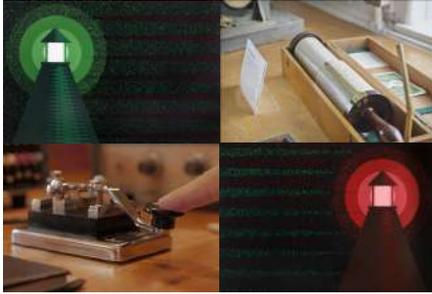


What led to the world's most famous shipping disaster? Pupils will discover the science behind the sinking of 'the unsinkable ship' and will get to test out some historic lifejackets, send some morse code messages and more.

SOC 2-01a, SOC 2-06a, SCN 2-08b

If you have any other topics in mind we're happy to help! Contact **01294 278283** or **education@scotmaritime.org.uk**

Workshops | at both sites



Maritime Codebreaking



P7 - S3 (60 minutes)
Codes have been used for centuries, to send distress messages from the *Titanic*, encrypt secret messages on the Enigma machine in WWII and even in Roman armies. In this workshop we'll test some coding techniques and write our own.
MTH 3-13a, TCH 3-13a, TCH 3-14a

Make a Museum

P6 - S3 (60 minutes)

Fancy yourself as a Museum curator? Using our handling boxes, replicas of some of our artefacts and artworks, design your own Museum display and learn the dos and don'ts of working in a Museum.

HWB 2-20a, SOC 2-01a /

HWB 3-20a, SOC 3-01a, SOC 3-02a



Powering Up with National Museums Scotland funded by the Scottish Power Foundation Level 2 (P7) (90 minutes)

A hands-on workshop investigating renewable energy for P7 classes, including a 90-minute workshop based on wind, solar and hydroelectric energy delivered by National Museums Scotland at SMM Irvine & Dumbarton.

Dumbarton 21-25 January 2019

Irvine 18-22 March 2019

15-18 April 2019



National
Museums
Scotland



This session is **FREE** for schools in West Dunbartonshire, North, South and East Ayrshire and may include subsidised travel to and from the Museum.

To book and for more info contact **Craig Sinclair** at
c.sinclair@nms.ac.uk

Art sessions | Irvine only



Immersive 30 minute sessions focused on our fantastic new collection of Scottish art inspired by the sea. We welcome primary and secondary groups.

1. 'Doon the Watter'

Grab your suitcase and sunglasses as we head to the seaside! View our fantastic travel posters and make a postcard.

2. Shipyard Brag by James S. Davis

What was it like to work in a shipyard? Explore the different objects, stories and social history behind this painting.



Outreach

Can't come to us? We'll come to you! We may not be able to bring any of our boats but we can bring handling objects and many of our STEM, history and art workshops to your school (marked with )

Maths, Maps and Materials:

A Maritime Voyage

Level 2, P5-7 (Half day)

All aboard! This immersive maths focused workshop explores navigation, trade and life on board a ship. Pupils will plan a voyage round the world, experience life on board a ship and return with materials they have found all over the world.



This session is **FREE** for North Ayrshire schools.

Outwith North Ayrshire - £150 per half day session.

Available from January - June 2019. Book early to avoid disappointment.



Ayrshire STEM Travel Subsidy



Primary schools in North Ayrshire, South Ayrshire or East Ayrshire are eligible to receive up to **£250** towards private hire transport to our **Irvine** Museum if you participate in STEM activities (marked with ).

Please note this is a limited offer and will be granted on a first come first served basis. Get in touch to find out more on 01294 278283.



Calendar - Spring Term 2019

January - June

January - June

Until 7 Feb

21-25 January

Early February

9-18 March

16 March

18-22 March

15-18 April

25-26 May

'Maths, Maps and Materials' outreach launch. Book now!

STEM travel subsidy available for Ayrshire schools.

Industry + Aesthetics photography exhibition in Irvine.

Powering Up workshops in Dumbarton.

WDC schools only. Free to attend.

Age of Oil exhibition opens in Irvine.

British Science Week - why not book a STEM workshop?

Science Fun Day at the Irvine Museum to celebrate British Science Week.

Powering Up workshops in Irvine for P7.

NAC, EAC, SAC schools only. Free to attend.

Powering Up workshops in Irvine for P7.

NAC, EAC, SAC schools only. Free to attend.

Science Festival in Dumbarton Museum.

Ready to book?

Email education@scotmaritime.org.uk or call **01294 278283** to book your visit or outreach.

Please provide the following information:

To visit a Museum

- Proposed date and a few alternatives
- Arrival and departure times
- Number of pupils and accompanying adults (up to 1 free per 8 children)
- The CfE learning levels of the group
- Preferred educational activities
- If you would like subsidised travel (Ayrshire STEM trips, see pg 10)

Visits cost £4 per pupil payable by cash, credit card or cheque on arrival, or we can invoice post-visit.

Both sites have coach parking and railway stations in walking distance.

To book an outreach session

- Proposed date and a few alternatives
- Timings of your school day
- Number of pupils (max 33 per session)
- The CfE learning levels of the group
- Preferred workshop(s)
- Size of the room the projector will take place in

60-90 minute workshops: £100

Maths, Maps & Materials: £150

(free for North Ayrshire Schools, pg 9)

All of our sessions are delivered by our trained Education team who are happy to cater experiences to your school's needs.

We look forward to welcoming you at the Museum or visiting your class in school!



Museums at:

Linthouse Building
Harbour Road
Irvine

Ayrshire KA12 8QE

Denny Ship Model Experiment Tank
Castle Street
Dumbarton

Dunbartonshire G82 1QS

www.scottishmaritime.org/learning

Scottish Maritime Museum is a charity registered in Scotland SCN: SC007133