

Learning at Morwellham Quay

At Morwellham Quay we aim to give students from KS1 to A Level, a visit which is both fun and educational.

Our talks and demonstrations are designed to cover aspects of the National Curriculum across a range of subjects.

A visit to us can be fitted in as part of a wider project in school, or as a stand-alone study. If there is a topic you would like to cover, or preparatory or follow-up work you would like to discuss, we are happy to help.

Details are given below on each activity we offer and how it fits the National Curriculum.

There is also a list of subjects with an explanation as to what aspects are covered in our activities.

Educational Visits include:

- a) Free preparatory visit for teachers to plan their trip.
- b) Free teaching resources to prepare for the visit and follow-up afterwards.
- c) Personal welcome by our costumed Living History Guide.
- d) Your choice of four timetabled activities, led by our costumed Living History Guides, within a four-hour visit.
- e) An indoor area in which to eat your lunch and leave your bags.

Current costs: 2024 - £16 per pupil

Teachers and support assistants free

Recommended ratios of	1:3 for children under 7
(Minimum 2 adults per group)	1:6 for children aged 7 - 11
	1:8 for children aged 11 upwards

Group Size: Up to 30 pupils in each group

KS1: Ages 5 – 7 KS2: Ages 7 – 11 KS3: Ages 11 – 14 KS4: Ages 14 - 16

Activities

Included with the school entry is the Mine train experience, which takes you into the George and Charlotte mine. In addition to this you can choose up to two activities from the four listed below for your visit. Depending on the length of your visit, each activity is within a 45-minute slot.

KS1 Points are listed in **Black**, KS2 Points are listed in **Blue**, KS3 Points are listed in **Orange**

Mine Train



Enter the George & Charlotte copper mine for a fascinating insight into living and working at Morwellham Quay. Here you will have a chance to learn about the appalling conditions faced by the miners who risked their lives extracting the minerals that helped drive the industrial revolution.

KS1

We will take your group on a journey underground through the George and Charlotte copper mine where the children will be able to use their senses to identify different light sources in order to conclude that darkness is the absence of light. Many aspects of the copper mining process will be explained, and the children will learn the part science has played in the development of many useful inventions, including the use of waterpower. They will hear about the lives of the miners, their working conditions and how the work was carried out. The children will be encouraged to express how they feel, being underground, and to make relevant comments, asking questions to clarify their understanding.

KS2

In addition to the KS1 aspects, the children should understand how through scientific techniques, the copper is smelted and transformed into copper plate and then into various copper items.

KS3

Additional to KS1 and KS2 points: as part of the Cornwall & West Devon Mining Landscape World Heritage Site, the visit to the mine will help the students develop their knowledge of this globally significant location, including the defining physical and human characteristics of the site. Technological changes and the history of copper mining are discussed during which a number of new words and terms are introduced which can expand vocabulary. Students will also learn about the industrial revolution, the empire, the slave trade and the impact on society.

English	Spoken Language	Grammar & Vocabulary	
Maths	Number and Place Value		Measurement
Science	Materials and their uses		Seasonal changes
	Forces	Rocks	Light
	States of matter	Scientific Attitudes	
Geography	Location & Place	Physical Geography	Human Geography
History	Local History	Industrial History	Social History
	Ideas, Political Power, Industry and Empire: Britain 1745 - 1901		

School



Occasionally the children of Morwellham could afford to go to school. Find out what Victorian education was like – its strict regime of parrot learning and punishment - all whilst sitting on hard benches. **Warning: this activity will be more fun than it sounds!**

KS1 & KS2

The Victorian School Teacher will run the class as though the children are living in the nineteenth century. They will quickly realise the differences between materials used in this classroom and their own, such as benches, candles, blackboards and slates. The teacher will explain the punishments faced by children in a small village school during the Victorian era. The students will learn to remember specific points that interest them, for later discussion in their own classroom. When they return to your school, they will be able to compare facilities and teaching styles with their own classroom.

KS3

In addition to the KS1 & 2 aspects the history of schooling and the impact of the industrial revolution on society will be explored.

Key Stage Points:

English	Spoken Language	Grammar & Vocabulary
Maths	Number and Place Value	Measurement
Science	Materials and their uses	
Geography	Location & Place	Human Geography
History	Local History	Social History
	Ideas, Political Power, Industry and Empire: Britain 1745 - 1901	

Costume



Your group will get the chance to dress up in Victorian style costume. Young ladies will have the opportunity to dress up in long skirts, capes and stylish hats of the period, whilst the young gentlemen can try on coats, waistcoats and top hats. They will also understand the style of dress that was relevant to social status. It is encouraged for the group to walk through the village, with their guide (weather permitting) to 'act' like a Victorian and end their activity with a group photo.

KS1

In the Costume Museum the children will find out about the type of clothing worn in Victorian times and how that would vary depending on the age, employment, wealth or social status of individual members of society. They will use the senses of sight and touch to explore and recognize the similarities and differences between the fabrics and the thickness and weights of the materials and compare them to their own clothing and school uniform. The whole group can then try on Victorian style clothing and go for a walk through the village to get an idea of what they would have worn and how they would have looked during that period. An ideal opportunity for a class photograph by the Water Wheel.

KS2

As well as the KS1 aspects the children should also recognize how the shapes of some objects can be changed by combining materials, such as the ribbing in the crinolines. They will be able to ask questions of the Guide as well as follow up and extend ideas about fashion, different materials and social status when they return to their own classroom.

KS3

In addition to the KS1 & 2 aspects new words will be introduced which will expand the students' vocabulary. The impact on clothing of both the industrial revolution and imported goods and materials from the Empire is discussed.

Key Stage Points:

English	Spoken Language	Grammar & Vocabulary	
Maths	Number and Place Value		Measurement
Science	Materials and their uses		Seasonal changes
Geography	Location & Place		
History	Local History	Industrial History	Social History
	Ideas, Political Power, Industry and Empire: Britain 1745 - 1901		

Rock Breaking – Victorian Child Labour (Some aspects not suitable for under 7's*)



For many children the only option after leaving school (at aged 8 or 9) was to work on the dressing floor. Your group will experience first-hand the hard work involved in dressing the ore, *breaking the rocks with hammers and sorting the copper ore from the waste rock.

KS1

A costumed guide will introduce the process of separating the ore deposits from the waste rock and the children will be able to comment and ask questions.

KS2

In addition to the KS1 they can then experience the working life of children in the past by breaking open the ore with hammers, following simple instructions to control the risks to themselves and to others. Using their senses, they will be able to sort the copper from the fool's gold and the dross (waste) based on simple material properties and learn how to separate solid particles of different sizes.

KS3

In addition to the KS1 & KS2 aspects the students will explore areas of human and physical geography including the use of natural resources, geological timescales, population and economic activity. Science is covered with reference to earth's limited resources, the formation of rocks, pure and impure substances and the properties of metals and non-metals. Students will evaluate risks and understand the importance of accuracy and precision in their work.

Key Stage Points:

English	Spoken Language	Grammar & Vocabulary	
Maths	Number and Place Value		Measurement
Science	Materials and their uses		Seasonal changes
	Forces	Rocks	States of matter
	Working Scientifically		Scientific Attitudes
	Earth & Atmosphere		The Periodic Table
	Pure & Impure Substances		
Geography	Location & Place	Physical Geography	Human Geography
History	Local History	Industrial History	Social History
	Ideas, Political Power, Industry and Empire: Britain 1745 - 1901		

Domestic Life



Your group will visit two contrasting Victorian homes. The wealthy cottage shows how the more affluent residents of Morwellham lived, whilst the "Miner's Cottage" is an overcrowded hovel typical of the area in the 1860s. The whole experience provides a vivid and thought-provoking contrast to modern home life.

KS1 & KS2

The homes and facilities available to the Victorians are compared with the equipment and machinery in a modern house (e.g. The use of electricity and plumbing). The children will be able to name items which were used instead of those powered by electricity, such as candles to give light and wood to fuel the fires for heat and for cooking. They will recognize items which were used to transport and hold water prior to plumbing, taps and modern bathroom facilities.

The guide will ask groups to discuss and compare living conditions between the two cottages, as well as exploring the contrast between their own home life and that of people in the 19th century. Students should remember specific points that interest them and ask questions to clarify their understanding.

KS3

In addition to the KS1 & KS2 points students will be able to discuss and explore terms such as 'empire', 'civilisation', 'social status' and 'peasantry'. The comparison of the two cottages will give them a historical perspective of economic and social history.

Key Stage Points:

English	Spoken Language	Grammar & Vocabulary	
Maths	Number and Place Value		Measurement
Science	Materials and their uses		Seasonal changes
	Properties & Changes of Material		
Geography	Location & Place	Physical Geography	Human Geography
History	Local History	Industrial History	Social History
	Ideas, Political Power, Industry and Empire: Britain 1745 - 1901		

History of Chocolate

This activity incurs an additional £2 charge per student.



Your group will learn how cacao beans are grown and processed and the history of chocolate making, including the many Victorian inventions which brought about the product we know today. They will each make a small chocolate lollipop and understand changes of material and how all their senses are involved when appreciating chocolate.

KS1, KS2 & KS3

The guide will instruct the group in making a chocolate lollipop, which they can decorate and take away with them at the end of their activity. This process shows how heating and cooling a material alters the product.

The machinery known as 'The Conching Machine' (which is used to enhance the texture and flavour of the chocolate by the addition of air) is demonstrated and explained through the history of 'Who' invented it and why. The group will then be shown the science of chocolate through a discussion around how their five senses are used.

A short video will help them to learn the ingredients of chocolate and a little about the health aspects. They will also learn through this film on how cacao beans are grown and processed, whilst also explaining the history of chocolate making and how through Victorian times chocolate went from a 'Spicy Chocolate Drink' to a solid form of eating chocolate that we all know and enjoy today.

A small exhibition to end showing the cocoa bean after it has been through the harvesting process alongside the fat (cocoa butter) which they will then touch, feel and smell to learn what these ingredients are like in their 'raw form' before the finished product.

Students should remember specific points that interest them and ask questions to clarify their understanding.

Key Stage Points:

English	Spoken Language	Grammar & Vocabulary	
Maths	Number and Place Value		Measurement
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History	Local History	Industrial History	Social History
Design Technology	Make & Evaluate and Food Technology		

Traditional Devon Cream Tea Experience

Jam or Cream on first? – the age-old argument between the county of Devon and Cornwall it's neighboring county, just over the River Tamar.



To get the full experience, the Devon way, you will need to put the cream on first, then the jam!

Although the exact history of the cream tea is unknown, it is believed to have a strong link to Devon. During the 11th century workers at the Tavistock Abbey were fed bread, jam and cream. Then in the early 1840s the Duchess of Bedford (wife to the Duke of Bedford who was landowner of Morwellham), created the afternoon tea to stem her hunger, consisting of small sandwiches, cakes and scones with jam and cream.

Morwellham's Traditional Devon Cream Tea Experience takes place in the Ship Inn, a 15th century pub.



- Two scones, Jam, Cream and a Cup of Tea, £6.50 per student

Subjects

English

KS1 & KS2

Many of the activities we offer will involve aspects of discussion with pupils listening to our guides and each other and responding appropriately. There may be times when the students will encounter unfamiliar words during the course of their visit; our staff will be on hand to explain anything they need to know more about. Pupils will always have a chance to ask relevant questions in order to check and extend their understanding and knowledge.

Other aspects of the English curriculum can be easily covered in the classroom using a visit to us as the starting point.

KS3

Many of the talks and activities available here encourage pupils to use discussion in order to learn, this will help them to become more competent in the arts of speaking, listening and participating in debate. Some of the talks and demonstrations will introduce words which may be unfamiliar; this will help to expand vocabulary.

Mathematics

A number of the activities we offer involve some form of mathematics, particularly in recognising and using language relating to dates and time, days of the week, months, year and centuries. The children will also be able to compare and sequence intervals of time or the duration of events.

Imperial measures are used in the Village Shop and the Classroom enabling pupils to compare the 'old' measurements with the new and 'old' money with the current coinage. They should also learn relative values by relating wages and prices for goods in the 19th Century to those today. In Child Labour the ore is graded by size and the children will learn how a grid is used to size pieces of rock.

Science

Many of the activities we offer can help with developing student's understanding of scientific principles.

KS1

Pupils will be able to observe various phenomena and will have ample opportunity to ask questions and discuss with our staff what they have experienced and increase their understanding.

KS2

Students can broaden their scientific view of the world around them by exploring, hearing about and talking about what they observe whilst visiting us. This will include a chance to find out how things have changed over time, as new scientific ideas have been accepted.

KS3

Scientific Attitudes towards evaluating the risks involved in the mine, on the dressing floor and when using the furnace and other instruments in the assayer's laboratory are discussed, as well as the need for accuracy and precision. A number of the mining activities discuss earth's limited resources, the formation of rocks, pure and impure substances and the properties of metals and non-metals.

History

KS1

In our Victorian village, students can develop and increase their knowledge of the past and will get a chance to use and understand words and phrases relating to the passing of time. Activities undertaken can be fitted into a chronological framework and many of them offer a fantastic chance to compare ways of life between different periods. Morwellham Quay is an excellent focal point for a wider investigation into significant people and events in the area.

Pupils will be given plenty of chances to ask relevant questions and will be encouraged to think around the topic and answer questions put to them by our team.

KS2

By understanding where in the chronology of the British Isles the industries surrounding Morwellham fit with other events, pupils can continue to develop their knowledge and understanding of British history. Looking at aspects of life covered on site pupils can identify trends, similarities and contrasts which develop over time and can be introduced to using the appropriate historical terminology.

KS3

As part of the Cornwall & West Devon Mining Landscape World Heritage Site, the visit to Morwellham Quay will help the students develop their knowledge of this globally significant location, the industrial revolution, the empire and the impact on society.

Visiting could be a starting point, or an interesting addition, to a study based around Britain's development as an industrial nation since the 18th century. A chance to see how the changing fortunes of an industrial area could affect the lives of the people involved. For local schools we are an ideal focus for a local history study of many aspects of British and World history, including the slave trade.

Geography

Morwellham Quay is an excellent site to explore the way in which available natural resources have had an effect on human industry and settlement patterns, giving an example of interaction between physical and human processes. It is also a fine demonstration of how these interactions can change over time because of changes in the needs and structure of human society.

A visit can be a good time to get children using correct geographical terminology for human and physical features encountered on your trip.

As with many of the other subjects, the site here can offer local schools a starting point into comparing this area with others, both in this country and in the wider world.

Booking Details

Booking

To book a visit either call or email. If you would like specific activities or you are studying a particular area in depth, then please let us know when making your initial booking. Alternatively, we are happy to allocate various activities for you, dependant on the length of your visit.

Each activity lasts anywhere between 30 and 45 minutes and timetabled slots include walking time between activities. If large, your group will be divided into smaller groups of up to 30 pupils and given a programme of activities. One break of half an hour will be allocated for lunch.

How to find us

From Tavistock in Devon, follow the brown signs - take the A390 towards Liskeard and bear left after two miles.

From Cornwall, follow the signs on the A390 towards Tavistock and turn right 1 mile after Gunnislake Bridge

First Aid

Morwellham Quay has several trained first aiders on site. If a first aider is required, please ask any member of staff.

Lunch and Toilets

There are both indoor and outdoor picnic areas available for your group to have use of and our toilet facilities are located at reception and the in the centre of the village.

What to wear

Morwellham is an open-air site, with most of our activities taking place undercover. However, we would recommend that all students bring a waterproof coat and warm clothing or sun cream/hat as appropriate. School uniform is not recommended as some of the activities can be muddy. The village has uneven and rough ground so sensible footwear is a must.

On wet days it may be a good idea to bring extra dry clothing to wear on the way home.

Parking

The coach park is situated in the main car park by the new reception building, for health and safety reasons we ask that the group embarks and disembarks from the coach park only.

Special Requirements

Because of the age and nature of the buildings, some do have restricted access for anyone with limited mobility or in a wheelchair. Staff are always on hand to help – please feel free to ask. The disabled toilets are situated in reception and behind the ‘Ship Inn’ in the centre of the village.

Important

Please try to arrive at the stated time as each activity is timetabled and late arrivals may not always be able to complete all activities.

The living history guides are here to help your group get the most out of their visit to Morwellham. However, it is the responsibility of the adults accompanying the group to ensure that the students behave in an acceptable manner.

For Enquiries & Bookings

Call 01822 832766

Email admin@morwellhamquay.org