

EXPLORING THE THAMES

The Thames Explorer Trust is a charity that raises awareness of the river through a range of educational activities. For 28 years we have been using the River Thames as a valuable, outdoor learning tool. The Thames is one of the cleanest city rivers in the world. The Thames in Greater London is tidal and so unlike other capital cities its foreshore can be explored at low tide. Not only are the River Thames and its tributaries a major wildlife corridor but its banks are steeped in history making it ideal for studying a range of subjects including geography, history and ecology.

Over 18,000 people investigated the Thames with us last year. Our hands-on interactive programmes encourage an understanding of the river environment and link directly to the National Curriculum. Our programmes and resources provide schools and groups with lesson material for both preparation and follow-up work back in the classroom.



Pupils studying Rivers & Environmental Issues at Chiswick

WE PROVIDE

- Full support for studying the river.
- Activities that support the National Curriculum programmes of study in science, geography, citizenship, history and creative arts.
- A range of programmes from EYFS to KS5.
- Programmes that can be tailored for pupils not in mainstream education.
- Outreach programmes.
- GCSE and A level geography, history and science programmes.
- Fieldwork throughout the year led by experienced staff.
- Educational resources.
- Advice on planning a river visit including pre-site visits.
- Inset training.
- All of our programmes address National Curriculum objectives in English, Maths and ICT.

OVERVIEW OF OUR PROGRAMMES

Most of our programmes are designed as full-day courses (four hours with half an hour for lunch) although half-day courses (2 hours of fieldwork) are available on request. We suggest your full-day course starts at 10 am and finishes at 2.30 pm, but we can be flexible with timings if the tides allow - please let us know your preferred times when booking. If you have to arrive late and/or leave early due to transport considerations we can either shorten or omit activities. This should be arranged in advance of your trip. A full-day programme includes two 2-hour sessions and involves both indoor and outdoor activities; the order of your activities depends on the tides. All sessions are designed to be flexible so that we can tailor them to suit your learning objectives and pupils' needs. Programmes may vary depending on the nature of the site, tides and weather conditions. Please supply us with your learning objectives in advance of your trip. In preparation for your river visit, we can provide classroom resources and advice as well as Inset training.

NEWS

At the time of going to press the Thames Explorer Trust is looking to develop chartered, educational boat trips in central London. If you are interested please keep an eye on our website, sign up to our newsletter or email the Trust Director Simon Clarke - simon@thames-explorer.org.uk

INCLUSION

We aim to make all our programmes inclusive and all our river centres have disabled access. Unfortunately wheelchair access on to the foreshore can be tricky, especially at sites with step-only access. We are happy to provide alternative activities to pupils who are unable to accompany their class on to the foreshore. Please contact us in advance of your trip to discuss options and to arrange a pre-site visit.

Please provide us with details of all pupils with SEND, EAL and medical conditions prior to your trip. Please make sure that one-to-one support staff are not included in your adult-to-child ratios. We also have our River of Life outreach programme that can be delivered at your school for SEND classes. At Chiswick our Rivers and Environmental Issues programme can be combined with 'meet the RNLI life boat crew' (see KS2 Rivers and Environmental Issues session 1c for details). Programmes at our other river centres can also be adapted and we are happy to discuss this with you. Subject to funding being available, we can sometimes offer subsidised visits to special schools, please contact us for further details.

HEALTH AND SAFETY

We advise that you do a pre-site visit before your trip. Please contact us to arrange this. We are the authors of the Health and Safety guidelines for the Thames foreshore, which can be downloaded from our website www.thames-explorer.org.uk. Risk Assessments are available on request. You will be sent safety advice with your confirmation pack.

CLASS SIZE

Maximum class size is 30 pupils. Depending on the tides and programmes we can cater for 2 classes on the same day at Chiswick, Greenwich, Kew Bridge, Fulham Palace, Southwark and Isleworth. At all other sites we can only accommodate 1 class per day.

SUPERVISION

To make the visit educationally effective and safe, we require the following adult to child ratios:

- Pupils under 2 years of age, a ratio of 1 adult to 3 pupils.
- Pupils aged 2-3 years, a ratio of 1 adult to 4 pupils.
- Pupils under 8, a ratio of 1 adult to 6 pupils is essential.
- Pupils over the age of 8, the recommended ratio is 1 adult to 6 pupils and a minimum of 1 adult per 10 children is essential.

One-to-one support staff and Thames Explorer Trust staff **should not** be included in these ratios. All attending adults must provide **close supervision at all times**, especially on the foreshore. Please bring an additional adult who is able to support the class in the event of an emergency. Please make adult helpers aware that the trip involves outdoor activities, working near open water, walking by roads and walking on a muddy, uneven foreshore. **Please make sure everyone wears sensible footwear and clothing appropriate for the weather.**

PRICES 2016/17

Full day programme

2 hours fieldwork & 2 hours of indoor activities and a lunchroom

£305 per class (maximum 30 pupils)

Half day programme with lunch room

2 hours of fieldwork

£215 per class (max 30 pupils)

Half day programme

2 hours of fieldwork with no lunchroom

£205 per class (max 30 pupils)

Half day programme at the Museum of London Docklands with lunchroom

2 hours of fieldwork & free use of lunchroom

£205 per class (max 30 pupils)

Full and half day programme at the The National Archives

Both half and full day programmes are charged at the same price.

£205 per class (max 30 pupils)

Outreach programmes

Full day programme **£305***

*** Additional charges may apply**

FREE KS2 Port of London workshops for state schools, subject to funding (T&Cs apply)

City of London Corporation, School Visits Fund

Receive up to £300 off the cost of a visit to the Museum of London or Museum of London Docklands from the City of London Corporation's School Visits

Fund. If your school is in Greater London, hasn't visited in the last three years and at least 30% of pupils are eligible for Pupil Premium*, you can apply for help with the cost of the visit. Funding is limited, so please apply early. The application process is quick and easy. For more information and to apply please visit

www.cityschoolvisitsfund.org.uk

*Special schools do not need to meet the Pupil Premium requirement.

HOW TO BOOK

Step 1

Choose your preferred site, course and month to visit.

Step 2

Phone 020 8742 0057 or email info@thames-explorer.org.uk to check availability and to make a provisional booking.

Step 3

Once a provisional booking has been made you must complete and return a booking form (**one per class**). You must return the form **within 7 days** to secure your provisional booking. An electronic copy of the booking form can be found at www.thames-explorer.org.uk

Step 4

You will then receive an email containing written confirmation, an invoice, map, and health and safety advice. Please do not make transport arrangements until you have received confirmation.

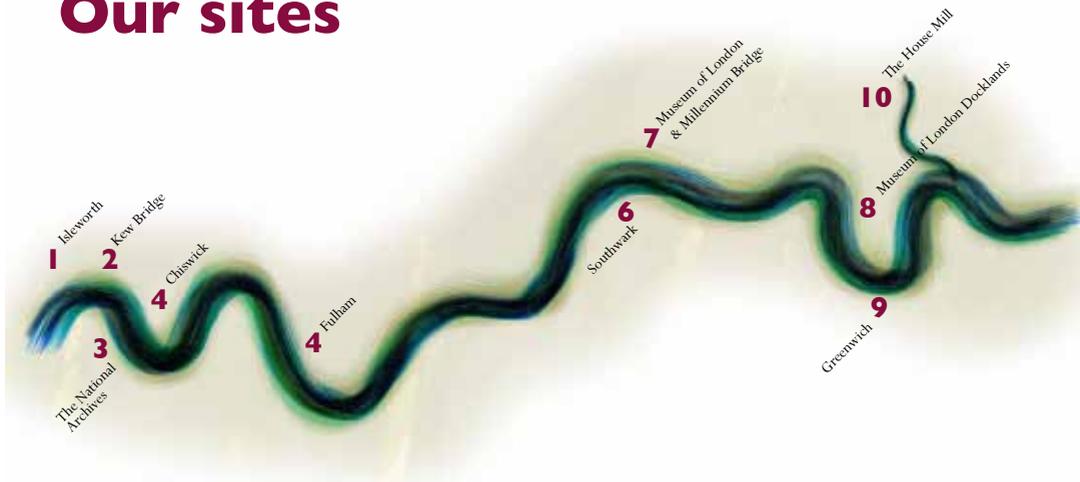
Step 5

Contact us to arrange a pre-site visit.

Step 6

Pay the invoice at least three weeks before the date of your visit to secure your booking.

Our sites



Sites offering **full-day** programmes have indoor classrooms, lunch facilities, disabled access plus toilets and hand washing facilities. The amenities at the full day programme sites are also available for half day visits on request (site dependent).

1. Isleworth, TW7 6BG

There's lots of river wildlife on the foreshore by the beautiful Isleworth Ait. The riverside trail takes in the local churchyard and plague pit, and then heads up the river path, which shows historic and modern Isleworth and the workings of an industrial river. Half-day session only (no toilets, hand washing or lunchroom facilities).

2. Kew Bridge, TW8 0EN

Fieldwork takes place on the foreshore just downstream of Kew Bridge and along the historic riverside at Strand on the Green. It's a 10 minute walk between the river and the London Museum of Water and Steam where indoor activities take place.

3. The National Archives, TW9 4DU

We offer a programme in partnership with the National Archives. The archive is one of the largest collections in the world and contains government and public records from the Domesday Book to modern government papers. Fieldwork takes place along the riverside at Kew and in our outdoor science lab, which is set in the beautiful grounds of the National Archives.

4. Chiswick Pier, W4 2UG

Our Thames Education Centre in Chiswick is managed by the Chiswick Pier Trust. Fieldwork takes place on the riverside and pier as well as on the foreshore by Chiswick Eyot. The site includes natural features which show evidence of erosion and deposition, something hard to find in London.

5. Fulham Palace, SW6 6EA

Fulham Palace is managed by the Fulham Palace Trust and has been the home of the Bishops of London since around 700 AD. Archaeological evidence of Neolithic, Iron Age and Roman settlers has been found here, as well as the foundations of a medieval palace. We have been granted special access to the foreshore at this site.

6. Southwark, SE1 9DT

Fieldwork takes place on the foreshore and riverside, along the Southbank by Bankside Pier and Shakespeare's Globe Theatre. We do not have indoor facilities at this site. Toilets and hand washing facilities may be accessible in the nearby Shakespeare's Globe Theatre and the Tate Modern. Groups doing our Thames and Tudor Life programme can extend their visit by exploring the Golden Hinde 2, a full-scale replica of Sir Francis Drake's famous ship.

7. Museum of London and the Millennium Bridge, EC2Y 5HN

We offer programmes in partnership with the Museum of London. Fieldwork takes place on the riverside and foreshore near St Paul's Cathedral and the Millennium Bridge. It's a 15 minute walk between the foreshore and the Museum where classroom based investigations take place. Viewing the museum's galleries is free and can be arranged on request (this excludes special exhibitions).

8. Museum of London Docklands, E14 4AL

We offer programmes in partnership with the Museum of London Docklands situated in West India Docks, an area rich in Thames history. It's a 15-minute walk between the foreshore and the Museum where classroom based investigations take place. Viewing the museum's galleries is free and can be arranged on request (excludes special exhibitions).

9. Greenwich - The Old Royal Naval College, SE10 9LW

We offer programmes in partnership with the Greenwich Foundation that cares for the historic Old Royal Naval College. Fieldwork takes place on the foreshore in front of the College. Indoor activities take place in the College. Viewing the Discover Greenwich Centre, Chapel and Painted Hall* can be arranged on request.

* Due to the Painted Hall Conservation Project access to the Hall may not be possible this year.

10. The House Mill and the River Lea, E3 3DU

Programmes here are offered in partnership with The River Lea Tidal Mill Trust that cares for the House Mill. Indoor activities take place in the House Mill itself, a Grade I listed 18th Century tidal mill set in a beautiful riverside location in the heart of London's East End. Fieldwork takes place by the River Lea and around the Mill.



**AN OVERVIEW OF OUR COURSES BY
KEY STAGE, SUBJECT AND LOCATION**

**KS2 pupils discovering
the Thames at Kew**

EYFS	An introduction to the river	Exploring the River Eric with the Eel Chiswick, Greenwich, House Mill	Page 10
KS1	Geography with history and science links	Getting to know the River in West London Chiswick, Kew	Page 10
	Geography with history and science links	Getting to Know the River at Greenwich Greenwich	Page 10
	History with geography links	Archaeology for All Greenwich, Museum of London, Museum of London Docklands, Southwark	Page 11
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KS2	Art - printmaking and watercolour	Thames Art Factory Chiswick	Page 19
	Geography with history and science links	Rivers and Environmental Issues Chiswick, Fulham Palace, Kew	Page 12
	Geography with history and science links	Investigating the Thames Greenwich, Museum of London Docklands	Page 13
	Geography with history and science links	Investigating Environmental Change Isleworth, Southwark	Page 13
	Geography with history and science links	Investigating the River Lea The House Mill and the River Lea	Page 14
	History with geography links	Archaeology for All Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark	Page 14
	History with geography links	Incredible Isleworth Isleworth	Page 17
	History with geography links	Victorian Thames Chiswick, Museum of London Docklands	Page 17
	History with geography links	Thames and Tudor life afloat Southwark	Page 15
	History and science	Cholera and the Thames The National Archives, Kew	page 18
	Science	The Science of Thames Water Chiswick, Kew Bridge, Fulham Palace, Greenwich	Page 19
	Science with geography links	Investigating the River Habitat Chiswick	Page 18
	Geography with science and history links	River of Life Outreach At your school	Page 20
	Geography and history	Port of London Outreach At your school	Page 20
SEND	Geography, history and science	Tailored Fieldwork Chiswick	Page 19
	Geography with science and history links	River of Life Outreach At your school	Page 20
KS3	Geography with history links	Investigating the Thames at Greenwich Greenwich	Page 21
	Geography	Rivers and Environmental Issues Chiswick	Page 21
	Geography	River Landforms and Flooding Chiswick	Page 21
	History with geography links	Archaeology for All Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark	Page 22
KS4 & 5	History with geography links	Archaeology for All Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark	Page 22
	Geography	Investigating Rivers Chiswick, Greenwich	Page 23
	Biology	Biodiversity of the Thames Chiswick	Page 23

School Programmes

EARLY YEARS FOUNDATION STAGE

■ Exploring the River with Eric the Eel

Site: Chiswick, Greenwich, the House Mill and River Lea

Duration: Half-day programme - 2 hours

This programme provides pupils with an opportunity to use, explore and experience their local environment through play, storytelling and hands-on activities.

Session 1 On the riverside pupils will take part in sensory activities and games to help them discover the river environment. In the classroom, we will use storytelling and visual aids to allow pupils to become familiar with the river and its wildlife. This is followed by a riverside walk, which will include identifying wildlife and observing how people use the river.

KEY STAGE 1

■ Getting to Know the River in West London (geography with history and science links)

Site: Chiswick, Kew Bridge

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available, on request.

This programme provides pupils with an opportunity to explore and experience their local environment.

Session 1 On the riverside pupils develop geographical knowledge of the

local river environment and its wildlife and observe how people use the river. Pupils make their own observations and carry out simple scientific tests (temperature, speed of flow and water quality). Bird-spotting on the riverside allows pupils to classify birds into carnivores, herbivores and omnivores. River dipping on the foreshore enables pupils to identify and compare different animals. Pupils will also get the chance to identify and describe the conditions of aquatic and terrestrial habitats, including microhabitats.

Session 2 Role play with the River of Life floor game involves creating a natural river habitat and looking at food chains. Pupils gain an understanding of the past by investigating river settlement and how people used and harmed the river. Using drama pupils will explore environmental issues and find “pollution solutions” to help devise a sustainable future for the Thames

■ Getting to Know the River at Greenwich (geography with history and science links)

Site: Greenwich

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available, on request.

This programme provides pupils with an opportunity to explore and experience their local environment.

Session 1 On the riverside pupils develop geographical knowledge of the local river environment and its wildlife and observe how people use the river.

Pupils make their own observations and carry out simple scientific tests (water temperature, speed of flow and water quality). On the foreshore, pupils will have the opportunity to experience the life of a mudlark by collecting archaeology as evidence of past river use.

Session 2 In the classroom pupils will use specially designed sorting boards to identify artefacts and interact with different materials to investigate the history of the local area and discover why it was once of global importance. Pupils will explore the lives of mudlarkers using storytelling, old photographs and drama to experience life in Victorian London. This session enables pupils to gain an understanding and awareness of the past and compare it with the present.

Archaeology for All (history with geography link)

Sites: Museum of London, Museum of London Docklands, Greenwich.

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request at the above sites as well as at Southwark (the latter being without indoor facilities).

Pupils will study the history of the local area employing the historical enquiry skills used by archaeologists. Pupils will discover how fragments of history can build up a picture of the past.

Session 1 On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of river settlement.

The session will enable pupils to gain an understanding and awareness of the past and will compare it to the present.

Session 2 Indoor activities will enable pupils to learn how to distinguish between different materials and identify and date artefacts using specially designed sorting boards. Pupils will investigate how artefacts found around the Thames help us to build a picture of London's history. By doing this they will gain a chronological knowledge from pre-history to present day.

Additional options

1. Pre-history Roleplay

Using drama pupils will discover what the River Thames was like during the Stone Age to the Iron Age. This activity must be booked in advance and it can take place in either session 1 or session 2

2. Archaeology for All Loans Box

Contains artefacts, specially designed sorting boards and a how to, users guide. £30 for three weeks hire. T&Cs apply



Foreshore finds at the Millennium Bridge

KEY STAGE 2 GEOGRAPHY

Rivers and Environmental Issues (with history and science links)

Site: Chiswick, Kew Bridge, Fulham Palace

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1a: Foreshore fieldwork

Includes using a range of scientific equipment to record simple abiotic data (temperature, velocity, state of tide), assessing water quality through chemical tests and invertebrate sampling. Pupils will observe river features including meanders and islands and river processes such as erosion, transportation and deposition. Pupils will use the local environment to gain experience in identifying and naming birds and invertebrates and to recognise how these organisms have adapted to the environment. The fieldwork aims to encourage pupils to raise questions about their local environment.

Session 2 Includes revision of geographical features and the water cycle. The River of Life floor game involves creating a natural river habitat and gaining an understanding of food chains and adaptations. Pupils will then look at how the river environment has changed over time and how pollution and human impact can pose a danger to living things. Through drama pupils will explore environmental issues and find “pollution solutions” to help devise a sustainable future for the Thames.

When the tide is high at Chiswick, session’s 1b OR 1c can be booked instead of 1a

Session 1b: Riverside Challenge

Fieldwork on the riverside aims to encourage pupils to raise questions about riverside settlement, flood protection, human impact and wildlife. On the pier, pupils will use a range of scientific equipment to record simple abiotic data (temperature, depth, velocity, state of tide) and assess water quality through chemical tests. Pupils will observe river features including meanders and islands and river processes such as erosion, transportation and deposition. Pupils will use the local environment to gain experience in identifying and naming birds and recognising how they have adapted to their environment.

Session 1c: Meet the RNLI Lifeboat Crew:

A great example of citizenship in action. Pupils have the opportunity to visit the Chiswick Lifeboat Station, which is the second busiest in the RNLI fleet. Pupils will learn first-hand about features of the E-class Lifeboat, the crew’s kit and what happens when the crew are called out to an emergency. Pupils will also learn how to prevent accidents from happening by developing an understanding of water safety. Please note: Chiswick is an operational lifeboat station so occasionally the crew might have to leave promptly to answer an emergency call. For this reason pupils will not be able to board the Lifeboat. On the pier, pupils will use a range of scientific equipment to record simple abiotic data (temperature, depth, velocity, state of tide) and assess water quality through chemical tests. Pupils will observe river features including meanders and islands and river processes such as erosion,

transportation and deposition. Pupils will use the local environment to gain experience in identifying and naming birds and recognising how they have adapted to their environment.

Investigating Environmental Change (with history and science links)

Site: Isleworth, Southwark

Duration: Half day programme - 2 hours. No indoor facilities

This programme provides an opportunity to observe geographical features of the Thames and learn about river settlement and how it is linked into a wider historical context.

Session 1 Fieldwork on the riverside includes recording river features, using a range of scientific equipment to record simple abiotic data (temperature, velocity, state of tide) and assessing water quality through chemical testing. Pupils will use the local environment to gain experience in identifying and naming birds and recognising how they have adapted to the environment. The riverside trail provides pupils with an opportunity to explore, observe and carry out a local history study. Pupils will gather evidence of how the river environment has changed over time and how pollution and human impacts can pose a danger to living things. On the foreshore at Isleworth pupils collect, identify and observe invertebrates and find out how these organisms have adapted to the environment. On the foreshore at Southwark, pupils collect historic artefacts to look into river settlement and local history. Fieldwork at both sites aims to encourage pupils

to raise questions about their local environment.

Investigating the Thames (with history and science links)

Sites: Museum of London Docklands, Greenwich

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1 Fieldwork on the riverside and foreshore includes recording geographical features, using a range of scientific equipment to record simple abiotic data (temperature, velocity, state of tide) and assessing water quality through chemical testing. Pupils will use the local environment to gain experience in identifying and naming birds and recognising how they have adapted to their environment. On the foreshore pupils will collect historic artefacts, allowing them to gain an understanding and awareness of the past and compare it with the present. Fieldwork will encourage pupils to raise their own questions about their local environment.

Session 2 In the classroom pupils will carry out hands-on investigations using a range of resources including maps, photographs and historic artefacts to learn about geography, wildlife, flooding, settlement and environmental issues of the Thames. A riverside trail around the local area provides an opportunity to observe, and learn about the geography of the River Thames and land use change and how this links to a wider historical context. We will conclude with a discussion as to why the local area was once globally important. At both sites you can opt

for a shorter classroom session to allow time for a guided visit around the historical buildings - this must be booked in advance. At Greenwich you can explore the Discover Greenwich Centre, the Chapel and the Painted Hall, **subject to availability**. At Docklands you can explore the Museum's galleries and Sailor Town – a recreation of the streets surrounding the old docks. **This is subject to your group bringing a change of clean shoes.**

Investigating the River Lea (with history and science links)

Site: The House Mill and the River Lea
Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

This programme provides an opportunity to observe the local environment and learn about the local history of the River Lea and how it is linked into a wider historical context.

Session 1 Activities on the riverside and in the classroom will introduce pupils to the River Lea and its connection to London and the Thames. Pupils will learn about geographical features and the water cycle. This is followed by role play with the Regeneration Game, a large floor game, which involves creating a natural river habitat and gaining an understanding of food chains and adaptations. Pupils then look at how the river environment has changed over time, gaining chronological knowledge from pre-history to present day. Pupils will investigate land use change and pollution and how human impact can pose a danger to living things. Through

drama pupils will find “pollution solutions” to help devise a sustainable future for the local area. The riverside trail around Three Mills Island provides pupils with an opportunity to explore and observe the local environment and carry out a local history study; finding evidence of past and present environmental change. Pupils will also use the surrounding area to identify and name birds and discover how they have adapted to their habitat. During the riverside trail pupils will explore the world around them and are encouraged to raise their own questions about their local environment.

Session 2 A unique opportunity to tour the largest tidal mill in the world! Allowing pupils to investigate the importance of the mill, river industry and how tides can be used as a sustainable energy source. Fieldwork includes using a range of scientific equipment to record simple abiotic data (water temperature, weather, state of tide) and assessing water quality through chemical tests. Pupils will observe river features and river processes such as erosion, transportation and deposition.

KEY STAGE 2 HISTORY

Archaeology for All (with geography links)

Sites: Museum of London, Museum of London Docklands, Greenwich, Fulham Palace.

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request at the above sites as well as at Southwark (the latter being without indoor facilities).

Pupils will study the history of the local area employing the historical enquiry skills used by archaeologists. Pupils will discover how fragments of history can help build up a picture of the past.

Session 1 On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of river settlement. This session will enable pupils to gain an understanding and awareness of the past and compare it to the present day.

Session 2 Indoor activities will enable pupils to learn how to distinguish between different materials and identify and date artefacts using specially designed sorting boards. Pupils will investigate how artefacts found around the Thames help us to build a picture of London's history. By doing this they will gain a chronological knowledge from pre-history to present day.

Additional options

1. Pre-history Roleplay Using drama pupils discover what the River Thames was like during the Stone Age to the Iron Age. This activity must be booked in advance. It can take place in either session 1 or 2

2. Archaeology for All Loans

Box Contains artefacts, specially designed sorting boards and a how to use guide. £30 for three weeks hire. T&Cs apply

The Thames and Tudor Life Afloat: A Local History Study (with geography links)

Site: Southwark

Duration: A half-day programme

with Thames Explorer Trust (2 hours)
No indoor facilities.

This programme provides an opportunity to observe the local environment and learn about the local history of the River Thames and how it is linked into a wider historical context.

Session 1 with Thames

Explorer Trust On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of river use. This session will enable pupils to gain an understanding and awareness of the past by comparing it to the present day. The riverside trail along the Southbank involves recording how the Thames has changed since the times of the Tudors, Stuarts and the Elizabethans. The trail will start or finish at the Golden Hinde 2 depending on the tide (we will advise you on booking). The riverside trail will provide pupils with an opportunity to explore and observe the local environment and to carry out a local history study as pupils scour the riverside and local streets for evidence of those who lived near and worked on the Thames.

Session 2 with the Golden Hinde Trust

The Golden Hinde circumnavigated the globe from 1577-1580 and this visit offers a unique and memorable opportunity to investigate life afloat in Tudor times. We will advise you on how to organise this session with the Golden Hinde Trust. Payment for this session is made directly to them.



**Sampling invertebrates
to assess water quality at
Chiswick**

Incredible Isleworth: A Local History Study (with geography links)

Site: Isleworth

Duration: Half-day programme - 2 hours. No indoor facilities

This programme provides an opportunity to observe the local environment and learn about the local history of the River Thames and how it is linked into a wider historical context.

Session 1 On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of past river settlement, allowing pupils to gain an understanding and awareness of the past and compare it to the present day. Pupils will carry out a local history study to gain chronological understanding of Thames settlement and gather evidence of past and present environmental change. The riverside trail will provide pupils with an opportunity to explore and observe the local environment.

Victorian Thames: A Local History Study (with geography links)

Sites: Chiswick, Museum of London Docklands

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Pupils will study the history of the local area,

develop their enquiry skills and learn how different sources can help build up a picture of the past. This programme provides an opportunity to observe the local environment and discover the local history of the river and how it links to a wider historical context.

Session 1 at Chiswick.

Hands-on activities, using the River of History floor game. Pupils will gain a chronological understanding of Thames settlement. Pupils will investigate the lives of different local Victorian families using a variety of historic sources such as census material and maps. Each group will present their findings and pose for a "Victorian family photo" using simple props and costumes.

Session 1 at the Museum of London Docklands.

On the riverside pupils will explore the old London Docks. Fieldwork on the foreshore involves collecting and identifying artefacts as evidence of past river use, allowing pupils to gain an understanding and awareness of its importance in global trade. In the museum pupils will use historic sources, visit Sailor Town and discover, through hands-on activities, what life was like in the Victorian Docks.

Session 2 at all sites. The riverside trail will provide pupils with an opportunity to explore and observe the local environment and carry out a local history study. Pupils will scour the riverside and streets for evidence of those who lived near and worked on the Thames.

KEY STAGE 2 SCIENCE

Investigating the River Habitat (science with geography links)

Site: Chiswick

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

This programme will help pupils develop a more scientific view of the world around them through exploring, talking about, testing and developing ideas on the relationships between living things and their environments. Pupils will use scientific enquiry skills, equipment and identification sheets to investigate and name living organisms from the local environment. Pupils will gain understanding of what makes a riverside a habitat and how living things survive in them.

Session 1 Pupils will develop an understanding of what the Thames is like today and knowledge of the geography of the river. They will use the local environment to gain experience in identifying and observing birds, and recognising how they have adapted to their environment. On the foreshore pupils will examine rocks and soil and find evidence of erosion, transportation and deposition. River dipping provides pupils with a chance to discover first-hand what lives in the river by collecting, identifying and observing fish and invertebrates. Pupils will have the opportunity to identify and compare animals with and without skeletons to find out how these organisms have adapted to their environment. Pupils will also have the chance to identify

and describe the conditions of aquatic and terrestrial habitats, including microhabitats. Pupils will determine whether or not the river is a healthy habitat using a range of scientific equipment to record indicator species, pollution and pH levels.

Session 2 In the classroom pupils will use the River of Life floor game to create a model of a river habitat and learn about the adaptations, evolution, food chains and life cycles of river animals. At science stations pupils will carry out their own investigations to make fair and comparable tests on Thames wildlife by using live specimens, visual aids, our aquarium and scientific equipment. Concluding with the 'Battle of the Beaks' game, which allows pupils to develop an understanding of how organisms have adapted to their environment and how adaptations link to evolution.

NEW

Cholera and the Thames: From 'Great stink' to Safe to Drink

Sites: The National Archives

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1 with the National Archives

What impact did the environment have on people's health in the 19th century? Exploring documents taken from the General Board of Health (in response to the 1848 Public Health Act) pupils investigate the causes of cholera in different localities across England and Wales. They find out about the 'Great

Stink of 1858' and the problems this caused.

Session 2 with Thames Explorer Trust

How clean is the Thames today?

Different types of science inquiries help pupils to discover what impact the river environment has had on people's health during the 19th and 21st centuries.

Types of scientific inquiry that will be used include riverside observations, identifying river wildlife, and signs of pollution. Fair testing will measure water quality (pH, turbidity, dissolved oxygen and water temperature).

Collecting, analysing and presenting data allows pupils to be part of 'River Watch' a citizen science project. Data will be uploaded to the River Watch database, allowing classes to use it for follow-up work back at school. The data will also be used by scientists monitoring litter and water quality issues in the tidal Thames. The session concludes by making water filters and exploring present-day environmental issues to help devise a sustainable future for the Thames.

NEW

The Science of Thames Water

Sites: Chiswick, Kew Bridge, Fulham Palace and Greenwich

Duration: Half-day programme - 2 hours.

How clean is the Thames today?

Different types of scientific inquiries help pupils discover what impact the river environment had on people's health during the 19th and 21st centuries. These include using

riverside observations, identification of river wildlife and signs of pollution. Fair testing will measure water quality (pH, turbidity, dissolved oxygen and water temperature). Collecting, analysing and presenting data will allow pupils to be part of 'River Watch', a citizen science project. Data can be uploaded to the River Watch database, allowing classes to use it for follow-up work back at school. The data will also be used by scientists monitoring litter and water quality issues in the tidal Thames. The session concludes by making water filters and exploring present-day environmental issues to help devise a sustainable future for the Thames.

OTHER PRIMARY AND SEND COURSES

KS2 Thames Art Factory

Creative arts programmes are available at Chiswick on request. We are happy to help you plan an arts programme and we can adapt our programmes to suit your requirements. For programme options please visit <http://www.thames-explorer.org.uk/thames-education/river-thames-colour-factory>

Fieldwork for SEND classes

At Chiswick our Rivers and Environmental Issues programme can be combined with 'meet the RNL life boat crew' (see KS2 Rivers and Environmental Issues session 1c for details). Programmes at our other river centres can also be adapted and we are happy to discuss this with you.



Getting to know the river at Greenwich

River of Life Outreach Workshops for KS1, KS2 or SEND classes (geography with history and science links)

Duration: Full-day programme

Format. A member of our staff will come to your school and teach up to 4 one-hour workshops or 2 two-hour workshops during the day. Each workshop is suitable for up to 30 pupils and will be adapted to fit into your school timetable. For the best results the use of a hall is recommended, as well as a screen, projector and computer. We can tailor each workshop to suit the age group, ability and schemes of work of each class.

Contents. Workshops will include

revision of geographical features and the water cycle. Role-play with the River of Life floor game involves creating a natural river habitat and gaining an understanding of food chains and adaptations. Pupils will look at how the river environment has changed over time and how pollution and human impact can pose a danger to living things. Through drama, pupils will explore environmental issues and find “pollution solutions” to help devise a sustainable future for the Thames.

FREE*

KS2 Port of London Outreach Workshop (geography and history)

Duration: Full-day programme

This programme provides an opportunity to learn about the history of the River Thames and how it links into a wider historical context.

Format. A member of our staff can come to your school to teach between 2 to 3 workshops during the day. We can teach up to 30 pupils for 1.5- 2 hours. For best results the use of a large space such as a hall is recommended. We will also need the use of a screen, projector and computer. We will tailor each workshop to suit the age group, ability and schemes of work of each class. Additionally you can opt for a 10-minute presentation during your school assembly using the Port of London to demonstrate how, on a global scale, we all depend upon each other.

Contents. Workshops include hands-on activities using the Port of London floor game - floor maps of the world and the Thames Estuary. Pupils will investigate world trade and the Port of London to gain an understanding of geography on a local and global scale. This is followed by role-play to discover the history of the Port of London.

*Subject to funding, FREE full-day programmes are available to state schools. Please contact us for details.

KEY STAGE 3 GEOGRAPHY

Rivers and Environmental Issues (geography)

Site: Chiswick

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1 Pupils gain fieldwork

skills on the riverside and foreshore by collecting environmental data (depth, velocity, temperature, pH, turbidity and dissolved oxygen), in addition to invertebrate sampling and recording human impacts and key features (meanders, erosion, deposition, transportation, island formation and tides).

Session 2. Pupils will investigate environmental issues and help devise a sustainable future for the river.

River Landforms and Flooding (geography)

Site: Chiswick

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1 Pupils gain fieldwork skills on the riverside and foreshore by collecting environmental data (depth, velocity, temperature, pH, turbidity and dissolved oxygen), in addition to invertebrate sampling and recording flood protection and key features (meanders, erosion, deposition, transportation, island formation and tides).

Session 2 Pupils investigate the causes and effects of flooding and use maps to discover which parts of London are most at risk and discuss what can be done to protect those areas.

Investigating the Thames at Greenwich (geography with history links)

Site: Greenwich

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Session 1 Pupils gain fieldwork skills on the riverside and foreshore by collecting environmental data (velocity, temperature, pH, turbidity and dissolved oxygen), in addition to recording key features (meanders, erosion, deposition, transportation, island formation and tides). Pupils then gather evidence of human impacts by collecting historic artefacts to find out about land use change.

Session 2 Using past and present data sources pupils will investigate local settlement patterns and land use change, and will develop different hypotheses for these changes.

KEY STAGE 3 HISTORY

Archaeology for All (history with geography links)

Sites: Museum of London, Museum of London Docklands, Greenwich, Fulham Palace.

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request at the above sites as well as at Southwark (the latter being without indoor facilities).

Pupils will study the history of the local area employing the historical enquiry skills used by archaeologists. Pupils will discover how fragments of history can build up a picture of the past.

Session 1 On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of river settlement. The session will enable pupils to gain

an understanding and awareness of the past and will compare it to the present.

Session 2 Indoor activities enable pupils to learn how to distinguish between different materials and identify and date artefacts using specially designed sorting boards. Pupils will investigate how artefacts found around the Thames help us to build up a picture of London's history. Pupils will gain a chronological knowledge from pre-history to present day.

Archaeology for All Loans

Box Contains artefacts, sorting boards and a how to use guide. £30 for three weeks hire. T&Cs apply.

KEY STAGE 4 & 5

Archaeology for All (history with geography links)

Sites: Museum of London, Museum of London Docklands, Greenwich, Fulham Palace.

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request. Half days available, on request at the above site as well as at Southwark (the latter being without indoor facilities).

Pupils will study the history of the local area employing the historical enquiry skills used by archaeologists. Pupils will discover how fragments of history can build up a picture of the past.

Session 1 On the riverside pupils will develop an understanding of what the Thames is like today and gain knowledge of river geography. Fieldwork on the foreshore involves collecting and identifying historic artefacts as evidence of river settlement.

The session will enable pupils to gain an understanding and awareness of the past and will compare it to the present.

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Archaeology for All Loans

Box Contains artefacts, sorting boards and a how to use guide. £30 for three weeks hire. T&Cs apply

Investigating Rivers (geography)

Sites: Chiswick, Greenwich

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

We are happy to help you plan a geography programme and we can adapt our programmes to suit your learning objectives or course work criteria. A pre-visit consultation allows us to create a memorable fieldwork day for your pupils. Please contact us to discuss options.

Biodiversity of the Thames (biology)

Site: Chiswick

Duration: Full-day programme - 4 hours plus half an hour for lunch. Half-days available on request.

Students carry out fieldwork to determine whether the management of the Tidal

Thames is suitable for the maintenance of healthy biodiversity. This programme can be easily adapted to suit your modules and learning objectives.

Session 1 Fieldwork will include kick sampling and invasive species transects. A presentation will highlight the ecology of the river and look at sampling methods for monitoring.

Session 2 Students will analyse their kick samples by identifying invertebrates using microscopes and keys. On the pier students will collect water quality data (nitrate, phosphate, salinity, temperature and pH).

PRIVATE FORESHORE WALKS

Private foreshore walks can be arranged by contacting our office. Let us know your learning goals and we will tailor the session to your requirements.

EVENTS

Throughout the year Thames Explorer runs: **Foreshore walks**

<http://www.thames-explorer.org.uk/foreshore-walks> **Family Events and informal learning**

<http://www.thames-explorer.org.uk/Families/>

INSET TRAINING

If you wish to learn about safe access to the foreshore and how the foreshore can be used in an educational context you can book a tailor-made course for your staff, team or department.

With thanks to our partners..

The Thames Explorer Trust would like to acknowledge our partners who have helped us throughout the year and who make London a more engaging place to be.



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