

# 2017 2018

educational programmes

Using the River Thames as an  
outdoor classroom.

THAMES  
EXPLORER  
TRUST 

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# Explore the Thames

For details of all our schools programmes including the latest news visit our new website [www.thames-explorer.org.uk](http://www.thames-explorer.org.uk)

Thames Explorer Trust is a charity that raises awareness of the river through a range of educational activities.

For 29 years we have been using the River Thames as a valuable, outdoor learning tool. Not only are the River Thames and its tributaries a major wildlife corridor, but their banks are steeped in history making it ideal for studying a range of subjects. Over 21,000 people investigated the Thames with us last year and took part in one of our programmes.

## Our programmes

Our programmes are either full or half day. Full day programmes involve both classroom and outdoor work and usually take place from 10am to 2.30 pm (we can be flexible if the tides allow). Half-day courses are 2 hours of fieldwork with start and finish times being tide dependent. All of our programmes take place at different key sites of interest along the tidal Thames where the foreshore is selected to best suit the subject. Refer to our programme table on the next page to see which courses run at which sites.

All of our activities can be tailored to suit your learning objectives and pupils' needs.

## We provide

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

|                    |  |  |   |         |
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| <b>EYFS</b>        | Cross curriculum                         | <b>Exploring the River with Eric the Eel</b><br>Chiswick   | Page 8  |         |
| <b>KS1</b>         | Geography with history and science links | <b>Getting to know the River</b><br>Chiswick, Kew Bridge   | Page 8  |         |
|                    | History with geography links             | <b>Archaeology for All</b><br>Greenwich, Museum of London, Museum of London Docklands, Southwark, Brunel Museum                | Page 9  |         |
|                    | Geography with science and history links | <b>River of Life Outreach</b><br>At your school  | Page 19   |         |
| <b>KS2</b>         | Art - printmaking or watercolour         | <b>Thames Art Factory</b><br>Chiswick  | Page 19   |         |
|                    | Geography with history and science links | <b>Rivers and Environmental Issues</b><br>Chiswick, Fulham Palace, Kew Bridge  | Page 9  |         |
|                    | Geography with history and science links | <b>Investigating the Thames</b><br>Greenwich, Museum of London Docklands   | Page 11   |         |
|                    | Geography with history and science links | <b>Investigating Environmental Change</b><br>Isleworth, Southwark, Old Royal Naval College Greenwich                           | Page 10   |         |
|                    | Geography with history and science links | <b>Investigating the River Lea</b><br>The House Mill and the River Lea   | Page 12   |         |
|                    | History with geography links             | <b>Archaeology for All</b><br>Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark, Brunel Museum | Page 13   |         |
|                    | History with geography links             | <b>Incredible Isleworth</b><br>Isleworth   | Page 14   |         |
|                    | History with geography links             | <b>Victorian Thames</b><br>Chiswick, Museum of London Docklands  | Page 15   |         |
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|                    | History and science with geography links | <b>Cholera and the Thames</b><br>The National Archives   | Page 18   |         |
|                    | Science with history and geography links | <b>The Science of Thames Water</b><br>Brunel Museum  | Page 18   |         |
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|                    | Geography with science and history links | <b>River of Life Outreach</b><br>At your school  | Page 19   |         |
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|                    | <b>SEND</b>                              | Geography, history and science   | <b>Tailored Fieldwork</b><br>Various sites      | Page 19 |
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| <b>KS3</b>         | Geography                                | <b>River Landforms</b><br>Chiswick   | Page 21   |         |
|                    | History with geography links             | <b>Archaeology for All</b><br>Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark, Brunel Museum | Page 21   |         |
| <b>KS4 &amp; 5</b> | History with geography links             | <b>Archaeology for All</b><br>Fulham Palace, Greenwich, Museum of London, Museum of London Docklands, Southwark, Brunel Museum | Page 23   |         |
|                    | Geography                                | <b>Man and the Thames: GCSE fieldwork</b><br>Chiswick  | Page 22   |         |

## Prices 2017/18

### Full day programme

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

**£305 per class\* (maximum 30 pupils)**

### Half day programme

2 hours of fieldwork with no lunchroom (see also Lunchrooms for half day visits below)

**£205 per class\* (max 30 pupils)**

\*Additional charges may apply to programmes run at weekends.

### Full and half day programme at The National Archives

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

**£205 per class (max 30 pupils)**

### Lunchrooms for half day visits

Lunchrooms are available at all sites except Southwark, the Old Royal Naval College, Isleworth and the Millennium Bridge. A free lunchroom is provided at the Museum of London Docklands.

**£20 per class (max 30 pupils)**

### River of Life outreach programme:

**£305\*\*(max 4 classes of 30 per day)**

### Port of London outreach programme

**Free to qualifying state schools, £305 to all other schools. (max 3 classes of 30 per day)**

\*\*Additional charges may apply for outreach workshops to schools outside Greater London.

### City of London Corporation, School Visits Fund

You may qualify for up to £300 off the cost of attending one of our programmes at the Museum of London or Museum of London Docklands, through the City of London Corporation School Visit Fund. For details, and to complete a simple application go to: [www.cityschoolvisitsfund.org.uk](http://www.cityschoolvisitsfund.org.uk)

### Cancellation policy

To cancel a booking you need to complete a cancellation form which can be downloaded from our website

[www.thames-explorer.org.uk/schools-and-universities/booking](http://www.thames-explorer.org.uk/schools-and-universities/booking)

You will not be charged for the visit if you cancel three weeks in advance. If you cancel or reschedule after this time you will incur costs or be liable for the full fee. Schools taking part in full day visits at the Old Royal Naval College need to give at least two months' notice.

## How to book

You can find information about inclusion, health and safety, class size, supervision ratios and our cancellation policy on the next page or for more details visit our school website pages:

[www.thames-explorer.org.uk/schools-and-universities/booking](http://www.thames-explorer.org.uk/schools-and-universities/booking)

### Step 1

Choose your preferred site, programme and month to visit.

### Step 2

Phone 020 8742 0057 or email [info@thames-explorer.org.uk](mailto:info@thames-explorer.org.uk) to check availability and to make a provisional booking.

### Step 3

Once you have made a provisional booking we will send you a booking form. You must return the form (1 per class) within 7 days to confirm the booking. If we do not receive your form we will contact you before cancelling your visit.

### Step 4

We will send you an email containing written confirmation, an invoice, map, and health and safety advice. Please note your trip has not been confirmed until you have received written confirmation from us.

### Step 5

Forward the invoice to your accounts department. The invoice should be paid at least three weeks before the date of your visit

### Step 6

Contact us to arrange a pre-site visit.

## Planning a visit

### Inclusion

We aim to make all our programmes inclusive and all our river centres have disabled access. Unfortunately wheelchair access onto 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 onto the foreshore. Please contact us to discuss options and to arrange a pre-site visit which must be conducted by the teacher leading the trip. To make the trip as effective as possible we need details of all pupils with SEND, EAL and medical conditions in advance of your visit. Please make sure that one-to-one support staff are not included in your adult-to-child ratios. We also have programmes available specifically for SEND classes - for details see page 19.

### Class size

Maximum class size is 30 pupils. Depending on the tide and programme we can have 2 classes on the same day at Chiswick, Greenwich, Kew Bridge, and Fulham Palace. For our half day programmes it may be possible to accommodate 2 classes (1 in the morning and another in the afternoon) depending on the site and tides.

### Supervision

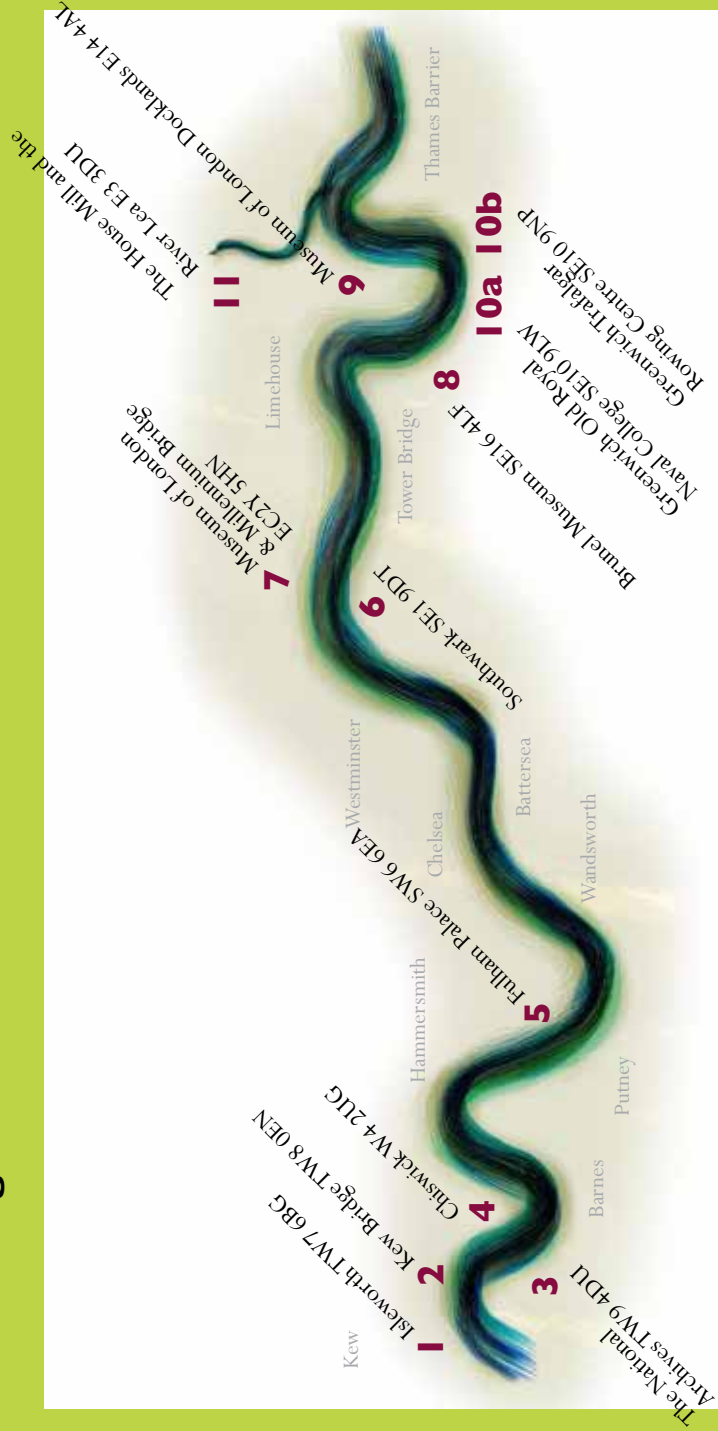
Please read full details on our website or ask our team member when booking. Minimum adult to child ratios per class (excluding 1 to 1 support)

- Children under 2 years of age: 1 adult to 3 children.
- Children aged 2-3 years: 1 adult to 4 children.
- Children under 8 years of age: 1 adult to 6 children.
- Recommended ratio for children over 8 years of age: 1 adult to 6 children.
- Minimum ratio for children over 8 years of age: 1 adult to 10 children.

### Health & safety

The welfare of our visitors is of utmost importance to us. If you are concerned about health and safety please contact us. We can supply advice, safety guidelines and examples of risk assessments. It is the responsibility of the school to make sure pupils behave appropriately. All attending adults must provide close supervision at all times. We will send you safety advice with your confirmation pack and we advise you to arrange a pre-site visit before your trip. We regret we cannot take children under 5 years old onto the foreshore. Under 5's can experience the river by taking part in our EYFS programme. See page 8.

# Teaching sites



## Education programmes

### Early years and foundation stage

#### Exploring the River with Eric the Eel

**Site:** Chiswick

**Duration:** Half day programme

This programme provides pupils with an opportunity to 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

#### Geography

##### Getting to Know the River (geography with history and science links)

**Sites:** Chiswick, Kew Bridge

**Duration:** Full day programme. 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 have 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.



## Key stage 1

### History

#### Archaeology for All (history with geography links)

**Sites:** Museum of London, Museum of London Docklands, Greenwich, Brunel Museum, Southwark.

**Duration** Full day programme at all sites (except Southwark). Half days available on request.

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 historical artefacts as evidence of river settlement. The session will enable pupils to gain an understanding and awareness of the past and to 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 from pre-history to present day.

## Key stage 2

### Geography

#### Rivers and Environmental Issues (with history and science links)

**Sites:** Chiswick, Kew Bridge, Fulham Palace

**Duration:** Full day programme. Half days available on request (except at Fulham Palace).

**Session 1:** Riverside fieldwork involves pupils using 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 recognise how they have adapted to their environment.

**Plus session 1a:** Foreshore fieldwork: at low tide pupils will take part in river dipping, a chance to discover first-hand what lives in the river by collecting, identifying and observing fish and invertebrates. Water quality will be assessed by biological indicators.

There are over 125 species of fish found in the Thames, as well as a wide variety of invertebrates and birds. This was not always the case. Discover the story of its transformation with us.

**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.

At Chiswick high tide options 1b or 1c are available instead of 1a

### **Session 1b: Riverside**

**Challenge:** Exploring the riverside aims to encourage pupils to raise questions about riverside settlement, changes in land use, flood protection, human impact and the natural environment.

### **Session 1c: Meet the RNLI**

**Lifeboat Crew:** A great example of citizenship in action! Pupils will 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 a 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 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.

If you would prefer to do sessions 1a or 1b but would also like to visit the RNLI Lifeboat station, visits can be arranged separately with the RNLI: Email [chiswick@rnli.org.uk](mailto:chiswick@rnli.org.uk) or phone 020 8995 5534.

### **Investigating Environmental Change (with history and science links)**

**Sites:** Isleworth, Southwark, Old Royal Naval College (Greenwich)

**Duration:** Half day programme - 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 understand 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 and Greenwich, pupils collect historical artefacts to study river settlement and local history. Fieldwork at all 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. Half days available on request, except at Greenwich (see above for alternative half day programme at Greenwich).

**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 historical 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 historical 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 by discussing why the local area was once globally important. At Museum of London Docklands, if time allows, you can explore 'Sailor Town' – a recreation of the streets surrounding the old docks. **Visiting Sailor Town is subject to your group bringing a change of clean shoes (a museum requirement).**

## **Investigating the River Lea (with history and science links)**

**Site:** The House Mill and the River Lea

**Duration:** Full day programme. 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 this 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 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 on the riverside includes using a range of scientific equipment to record simple abiotic data (water temperature, weather, state of tide) and assessing water quality through chemical testing. Pupils will observe river features and river processes such as erosion, transportation and deposition.

Our hands on programmes  
enhance every child's  
learning experience and  
bring the curriculum alive.

Learn how the Victorian Thames was used as a highway, a watery rubbish tip, an open sewer and a source of drinking water.

## Key stage 2

### History

#### Archaeology for All (with geography links)

**Sites:** Museum of London, Museum of London Docklands, Greenwich, Brunel Museum, Southwark, Fulham Palace.

**Duration:** Full day programme at all sites (except Southwark). Half days at all sites (except Fulham Palace). 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 historical 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



A drop of Thames water  
Punch magazine 1850

us to build a picture of London's history. By doing this they will gain a chronological knowledge from pre-history to present day.

### **Thames and Tudor Life: A Local History Study (with geography links)**

**Site:** Southwark

**Duration:** A half day programme - 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 historical 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 investigate the riverside and local streets for evidence of those who lived near and worked on the Thames.

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

**Site:** Isleworth

**Duration:** Half day programme - 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 historical 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

When the tide goes out London reveals its past - an incredible array of foreshore artefacts telling the story of it's previous inhabitants.

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 only  
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 historical 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 historical sources, visit 'Sailor Town' and discover, through hands-on activities, what life was like in the Victorian Docks.

**Visiting Sailor Town is subject to your group bringing a change of clean shoes (a museum requirement).**

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

## New from spring 2018

### **Tribes and Tides: A voyage through prehistory (history with cross curriculum links)**

**Sites:** Brunel Museum, The House Mill and the River Lea.

**Duration:** Full day programme. Half days available on request.

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:** Roleplay throughout the day will involve pupils working in 'tribes' to discover what the local area was like from the Stone Age to the Iron Age. Fieldwork on the foreshore at the Brunel Museum and on the riverside at the House Mill involves collecting and identifying objects to distinguish between different materials, providing an insight into how London's rivers were used and the complexity of people's lives during prehistoric times. Creative arts help pupils to gain an understanding of tribal life, societies and relationships between different groups and make comparisons to the modern day.

**Session 2:** An overview of prehistory, river settlement and archaeology will enable pupils to develop key vocabulary and chronological understanding. Hands-on classroom activities will enable pupils to gain historical perspective using a range of resources including maps, pictures and objects.



“...the foreshore exploration was a unique opportunity for pupils to develop their understanding of artefacts...”

A year 5 teacher taking part in our Victorian Thames programme at the Museum of London Docklands.



## Key stage 2

### Science

#### Investigating the River Habitat (science with geography links)

**Site:** Chiswick

**Duration:** Full day programme. 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 a river habitat and living things.

**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 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 wildlife. 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. The 'Battle of the Beaks' game allows pupils to develop an understanding of how organisms have adapted to their environment and how these adaptations link to evolution.



## **Cholera and the Thames: From 'Great Stink' to Safe to Drink (science & history with geography links)**

**Site:** The National Archives

**Duration:** Full day programme. 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 scientific 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 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, enabling 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 Science of Thames Water (science & history with geography links)**

**Site:** Brunel Museum

**Duration:** Half day programme

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 and water temperature). Collecting, analysing and presenting data will allow pupils to be part of 'River Watch', a citizen science project. Data will be uploaded to the River Watch database, enabling 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.

## 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 details see: [www.thames-explorer.org.uk/thames-art-factory-ks2](http://www.thames-explorer.org.uk/thames-art-factory-ks2)

### Fieldwork for SEND classes

A pre-visit consultation will allow us to create a memorable fieldwork day for your pupils. We can tailor programmes to suit the age group, ability and schemes of work of each class. Please contact us to discuss options.

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

**Duration:** Full day programme only

**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 can be adapted to fit in with your school timetable. For the best results the use of a hall is recommended,



The Thames is an incredible outdoor learning space when you know what to look for and how to stay safe.

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 impacts 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 to qualifying schools\*

### KS2 Port of London Outreach Workshop (geography and history)

**Duration:** Full day programme only  
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. Each workshop is suitable for up to 30 pupils. Minimum duration of each workshop is 1.5 hours long but we recommend you allow 2 hours per workshop. 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.  
\*Free full-day programmes are available to qualifying state schools, subject to funding. Please call us for more details.

## Key stage 3

### Geography

#### River Landforms (geography)

**Site:** Chiswick

**Duration:** Full day programme. Half days available on request.

**Session 1:** Pupils will gain fieldwork skills on the riverside and foreshore by collecting environmental data (depth, velocity, temperature, pH), in addition to invertebrate sampling and recording human impact and key features (meanders, erosion, deposition, transportation, island formation and tides). Pupils will learn about the importance of the Thames as a resource and how past and present human use has changed and impacted on the landscape.

#### Indoor options (2a or 2b):

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

**Session 2b:** Pupils will investigate the causes and effects of flooding and different flood management techniques including hard and soft-engineering options. Pupils will use maps to discover which parts of London are most at risk from flooding.

## Key stage 3

### History

#### Archaeology for All (history with geography links)

**Sites:** Museum of London, Museum of London Docklands, Greenwich, Brunel Museum, Southwark, Fulham Palace.

**Duration:** Full day programme at all sites (except Southwark). Half days at all sites (except Fulham Palace).

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:** Fieldwork on the foreshore involves collecting and identifying historical 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.

Each year over 21,000 people join us at one of 11 sites to learn about the geography, ecology and history of the Thames.



## Key stage 4

## Geography

### New

#### Man and the Thames: GCSE geography fieldwork

**Site:** Chiswick

**Duration:** Full day programme. Half days available on request.

GCSE students will develop their knowledge through essential fieldwork and data collection, gaining insights into the relationship between human and physical landscapes, their processes

and environmental challenges. Students will also investigate geographical questions and gain competence in using maps, fieldwork and geographical skills.

**Session 1:** Fieldwork on the riverside involves observing physical landforms and processes of the river system (meanders, erosion, deposition, transportation, island formation and tides). An Environmental Quality Survey allows each student to subjectively measure the urban and natural landscape to understand more about the relationship between human and physical geography. Fieldwork on the foreshore includes making a field sketch of a meander, measuring and recording river materials and their processes and invertebrate sampling to assess water quality. Back on the riverside students observe either human impacts or flood protection by creating maps of the local area.

**Session 2:** An overview of the importance of the Thames as a resource and how past and present human use has changed and impacted on the landscape and the options for future management. Students gain fieldwork skills on the pier by collecting environmental data (depth, velocity, temperature, pH).

If time allows, students will then study either **a)** The biodiversity of the Thames, environmental issues and sustainable management practices or **b)** The causes and effects of flooding and different flood management techniques including hard and soft engineering options, followed by a discussion on the consequences of extreme weather and climate change. Student will use maps to discover which parts of London are most at risk from flooding. Both options enable students to communicate ideas and arguments and draw conclusions.

## Key stage 4&5 History

### Archaeology for All (history with geography links)

**Sites:** Museum of London, Museum of London Docklands, Greenwich, Brunel Museum, Southwark, Fulham Palace.

**Duration** Full day programme at all sites (except Southwark), half days available on request (except Fulham Palace)

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 historical artefacts as evidence of river settlement. The session will enable pupils to gain an understanding and awareness of the past and 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 up a picture of London's history. Pupils will gain chronological knowledge from pre-history to present day.

## INSET training

**Sites:** Chiswick

**Duration:** Full day

Thames Explorer runs a number of inset days at our Chiswick site which can be tailored to suit your needs. Please visit our website or call us to discover more.

## Private foreshore exploration

**Sites:** Museum of London, Museum of London Docklands, Greenwich, Brunel Museum, Southwark.

**Duration:** 2 hours

Follow in the footsteps of Victorian mudlarks by exploring London's longest archaeological site. Each day the outgoing tide reveals a different array of artefacts, from old smoking pipes, drain pipes, pottery, bones - there is lots of evidence of London's past to be found.

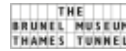
Our archaeologists have a wealth of knowledge and are fully trained to lead safe and ethical foreshore explorations. We can tailor the session to your requirements.

## Resources

We have a number of free classroom resources available to download from the schools section of our website.

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With thanks to our partners who have helped us throughout the year.



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