

Key Stage 1 Geography



Welcome to London's newest outdoor classroom!

We have designed a suite of learning resources for schools to bring with them and use within Queen Elizabeth Olympic Park, London's newest outdoor classroom. It is our ambition for the Park to inspire, raise aspirations and raise educational attainment amongst schoolchildren and we have created lesson plans and worksheets that bring the national curriculum to life across a range of subjects and key stages.

These resources provide a quality learning experience for students through exploring the past, present and future of Queen Elizabeth Olympic Park through the spectacular parklands, venues and waterways. They have been designed to ensure your school group get the best learning experience out of your trip to the Park enabling you and your students to discover, share and enjoy Queen Elizabeth Olympic Park whilst learning. The resources cover the following subjects:

Key Stage 3 and 4 – Geography, Science, Design Technology, Maths and PE

Key Stage 1 and 2 – Literacy, Numeracy, Science and Geography

These resources provide a practical example of the London curriculum in action, using the unique backdrop of this new part of the capital to inspire learning.

We'd like to extend a special thank you to the Fields Studies Council who were commissioned to develop the learning resources and to all the schools involved in helping to input, shape and test the resources.

We hope that you enjoy them and we welcome your feedback.



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Key Stage 1 – Geography

Information for teachers

Activities – information for teachers

The following pages describe various activities that are related to the subject covered in this pack. Pupil worksheets for each of these activities can be found in the following section.

Suggested locations to carry out the activity are also shown, these relate to the map on the following page.

Activities are shown in a circular route from Stratford station, however they can be used in any order and you can take any safe route through Queen Elizabeth Olympic Park.

Each activity is designed to take about 20 minutes.

Activities are designed to require no additional resources or equipment.

Worksheets can be printed in black and white or colour.

Further information

Key facts and useful information can be found on pupil worksheets in boxes like this.

These include information about the venues and the parklands, as well as background about the area around Queen Elizabeth Olympic Park.



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Map

The worksheets can be carried out at sites across Queen Elizabeth Olympic Park. We have suggested location that we believe is most suitable for each activity. They are identified on the map below.



Location	Activity	Description
London Aquatics Centre	London Aquatics Centre	<i>To investigate London Aquatics Centre.</i> Students look at London Aquatics Centre and identify how it has changed from Games time to now. They consider who is using it and why.
South of the Park	Parklands investigation	<i>To identify who is using the parklands and what they are using them for,</i> Students identify parkland users. They record what they are doing and draw conclusions about why they are here.
ArcelorMittal Orbit	A new tourist attraction	<i>To investigate the ArcelorMittal Orbit as a tourist attraction.</i> Students investigate the area surrounding the ArcelorMittal Orbit and consider why people visit and what they do during their visit.
Neighbourhoods	Design your own neighbourhood!	<i>To design their own neighbourhood.</i> Students observe a development area and decide what they would like to build there. They think about what a community needs and draw their ideas.
River Lea	River Lea comparison	<i>To describe the river and the changes that have been made.</i> Students look at a past photograph of the River Lea and compare it to now. They look at the north of the Park and the habitats that have been created.
Lee Valley VeloPark	Lee Valley VeloPark	<i>To investigate Lee Valley VeloPark,</i> Students look at Lee Valley VeloPark and identify how it has changed from Games time to now. They consider who is using it and why.
Olympic Rings	I Spy	<i>To understand how to use co-ordinates.</i> Students look across Queen Elizabeth Olympic Park and identify the main buildings. They use a map of the site and identify co-ordinates for each building.
North of the Park	Habitats	<i>To map the habitats found within the north of the Park.</i> Students map the habitats in the north of the Park. They consider why the area is important for wildlife.
East Village	Investigating place!	<i>To investigate the elements that form East Village.</i> Students look at East Village and discover the elements that contribute to the new community. They compare East Village to the houses that used to be near the site.

Curriculum links

KS1	Geography	• Develop knowledge of Queen Elizabeth Olympic Park including physical and human characteristics • Develop geographical skills: • Collect, analyse and communicate with a range of data gathered through fieldwork and first hand experiences • Interpret sources of geographical information including maps, photographs, aerial photographs • Communicate geographical information through maps, numerical and quantitative skills and writing • Subject Content • Place Knowledge • Understand similarities and differences between places • Human and Physical Geography • Use basic geographical vocabulary to refer to key physical and human features • Geographical Skills and fieldwork • Use maps • Use simple compass directions and locational and directional language • Use aerial photographs to recognise landmarks • Use fieldwork and observational skills to study the geography of Queen Elizabeth Olympic Park
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Key Stage 1 – Geography

Pupil worksheets

London Aquatics Centre

Here is a photograph of London Aquatics Centre in 2012.

Have a look at the building now. Can you spot the difference? Label the changes on the photograph.

Why has it changed?

.....



There are two 50 metre swimming pools and one 25 metre diving pool. During the London 2012 Olympic and Paralympic Games, the capacity was 17,500 people.

This was achieved using two side extensions which have now been removed. Capacity is now 2,500 people (expandable to 3,500).

Observe the people using London Aquatics Centre.

Watch the people entering and leaving the building and fill in the table below with the number of people. Use a tally.

Time	Who	Tally
	Men	
	Women	
	School children	
	Families	

Why are they visiting?

Will there be different numbers of people at other times of the day?

When do you think it will be busiest?

The swimming and diving pools have submersible floors and dividing walls so the size and depth can be altered. The floors can be raised creating a large room for events. There are also gym facilities and a dry dive area.

What sports can people do here? Try acting them out (on dry land!)

Why not compare this to the Copper Box Arena and Lee Valley VeloPark?

Parklands investigation

Queen Elizabeth Olympic Park is made up of more than 22 miles of interlinking pathways, waterways and cycle paths. There are 250 benches and lots of seating built into the parklands, so people are never more than a 50 metre walk from a seat.

Sit in a safe place in the parklands, and draw a picture of what you can see.

Count the things you can see. Record them in the table below using a tally.

What	How many?
Benches / seats	
Litter bins	
Recycling bins	
Fountains	
Bike rack	
Kiosks (stall)	
Trees	

How many people can you see? Look around you for five minutes, what are they doing? Record them in the table below using a tally.

Activity	How many?
Sitting reading	
Sitting eating	
Walking	
Walking dog(s)	
Cycling	
Running	
Playing	

The Park has 102 hectares of open space and 6.5km of rivers and canals. These include 45 hectares of bio diverse landscape which is a haven for local wildlife, including reed beds, grasslands, ponds and woodlands, with 525 bird boxes and 150 bat boxes.

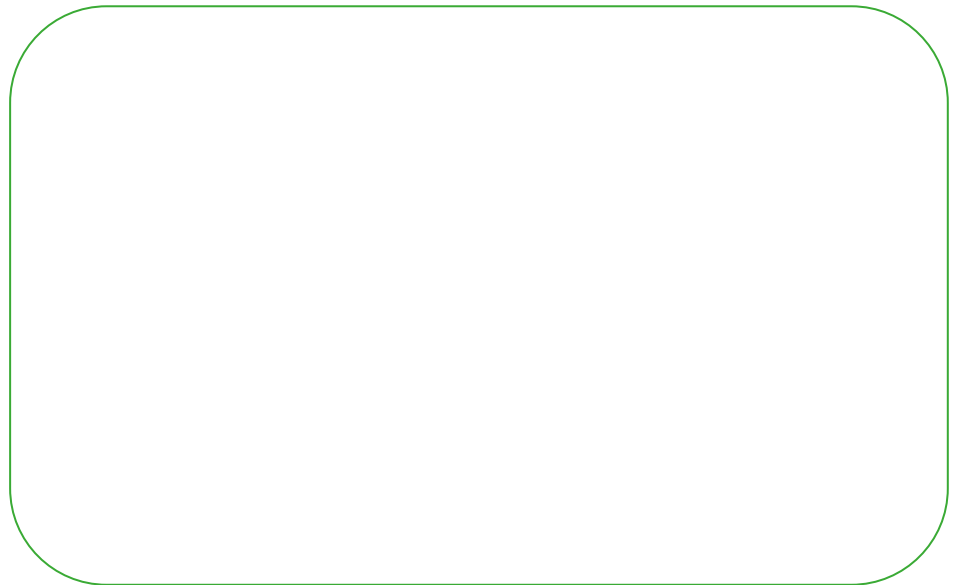
A new tourist attraction

The ArcelorMittal Orbit is a tourist attraction. It is the UK's tallest sculpture at 114.5m and is held together with 35,000 bolts. On a good day, you can see 20 miles from the top.

Can you draw the ArcelorMittal Orbit in the box?

Label the sketch you have drawn with the main features:

- ArcelorMittal Orbit
- Entrance
- Lift
- Viewing platform
- Ticket office / shop



Who is visiting?

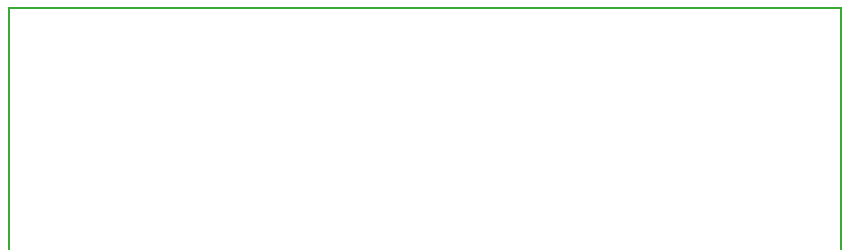
Find the main entrance and stand so you can see it. Count how many visitors there are in five minutes.

Number of people



Why are they visiting?

Write some words you would use to describe the ArcelorMittal Orbit to other people.



Design your own neighbourhood!

The area you can see will become a new community.

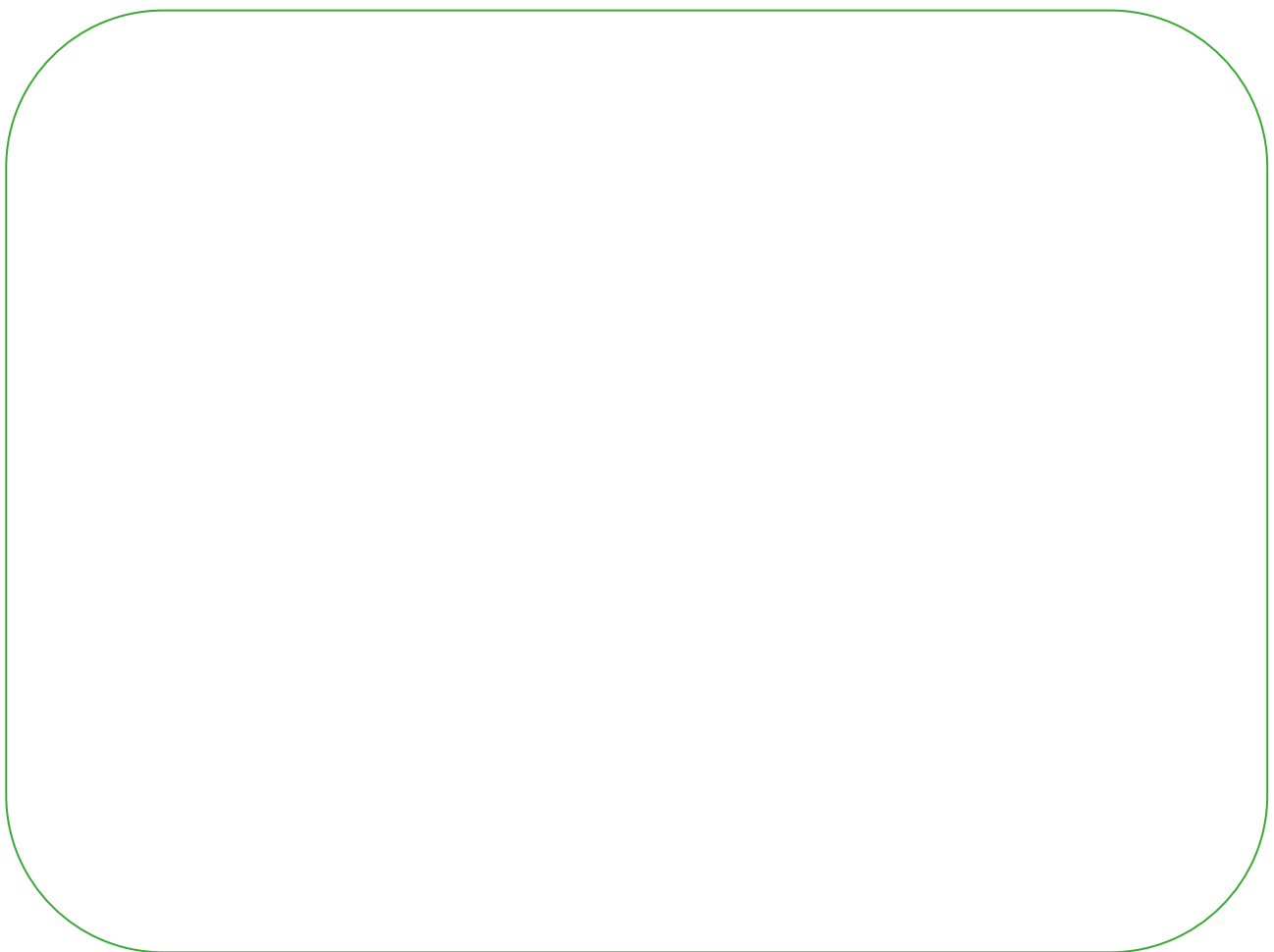
What do people need in a community? Here are two ideas write or draw some other ideas

Houses

Roads

Shops

Draw a map of your new community in the space below:



There will be five new neighbourhoods on Queen Elizabeth Olympic Park. The plans include over 6,000 homes, 12 schools and nurseries, health centres, local shops and businesses employing nearly 10,000 people on the Park.

River Lea comparison

In the 17th and 18th Centuries, the River Lea was diverted through manmade channels to power mills and industry. The water was also used to create chemicals and other goods. It was developed as part of a flood scheme in the 1930s resulting in high concrete walls.

This picture is of a bridge over the River Lea. The area has changed a lot, but the bridge still exists – can you find where this photo was taken from?

Buildings are near the river

The river is tidal



High concrete banks

Limited habitats for wildlife

In the north of the Park, the river has been designed to be more natural. Draw a picture of the river in the space below. Use the labels and add your own!

River Lea

Flood defence

Wildlife habitats

Reed beds

Open space

What will happen when the water level rises?.....

.....

There are 6.5km of waterways in Queen Elizabeth Olympic Park. Work has been carried out to improve them including removing rubbish. New habitats include reed beds and wetland areas. The north parklands are designed to flood when the water level rises.

Lee Valley VeloPark

Lee Valley VeloPark now includes the Velodrome and BMX track that were used in the London 2012 Olympic and Paralympic Games and a new 1.6km road cycle circuit and mountain bike course.

Here is a map of Lee Valley VeloPark. Can you work out where you are standing? Mark it on the map.



There are four types of bikes you can use here. Tick the ones you can see.



Road



Mountain



Track



BMX

How busy is it here?
Count the number of people you see in five minutes and record them in the table.

Time	Who	Tally
	Road bike rider	
	Mountain bike rider	
	BMX bike rider	
	Track bike rider	
	Walker	

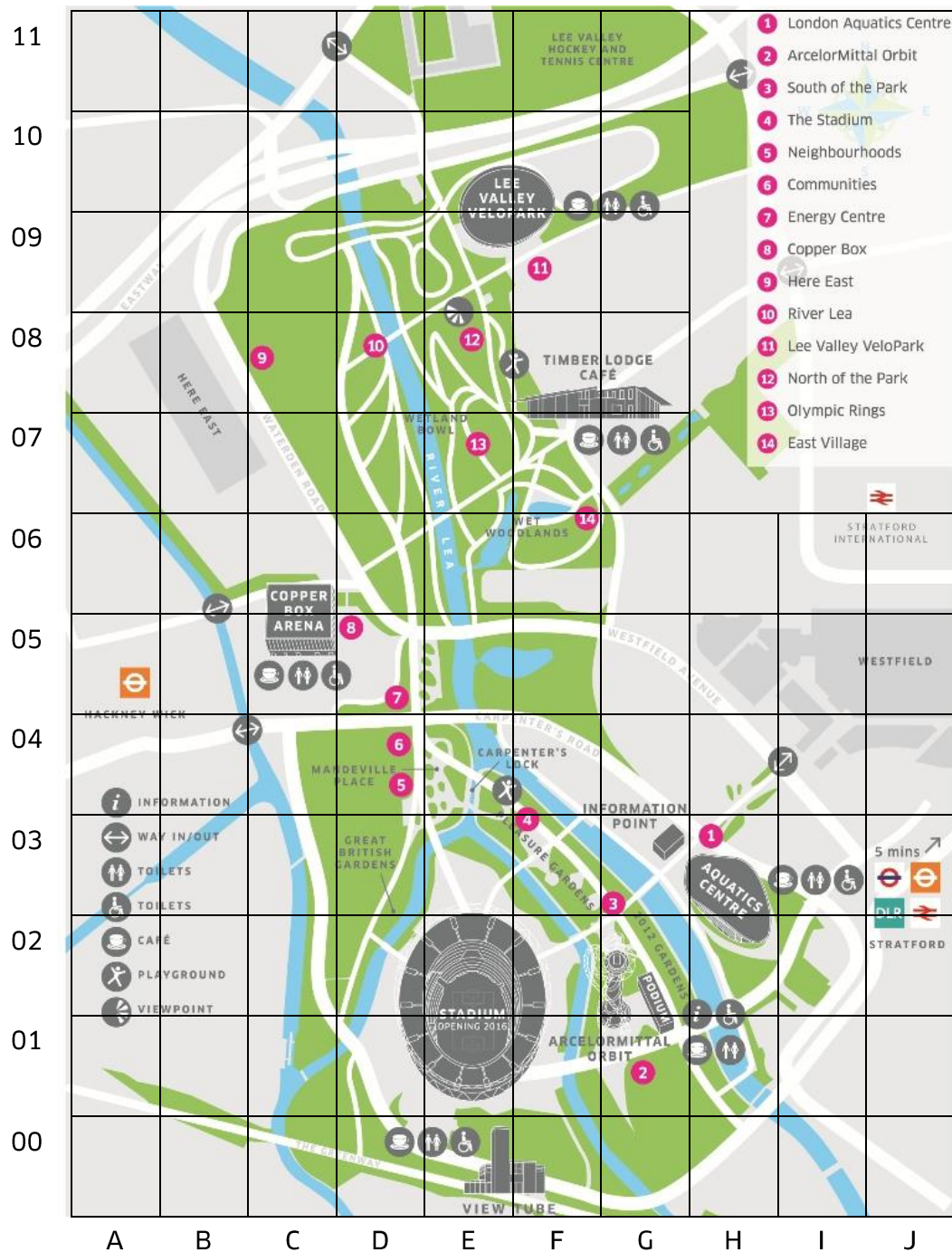
Why not compare this to London Aquatics Centre and the Copper Box Arena?

I spy!

From here you can see across the whole of Queen Elizabeth Olympic Park! Can you spot these buildings from where you are standing?

Stadium; London Aquatics Centre; Copper Box Arena; Here East; ArcelorMittal Orbit; East Village; Lee Valley VeloPark; Energy Centre; Olympic Rings

Using the map below, can you work out the co-ordinates for each building? Remember to go across then up.



Habitats

Queen Elizabeth Olympic Park has 102 hectares of open space and 6.5km of rivers and canals. The parklands include 45 hectares of bio diverse landscape which is a haven for local wildlife, including reed beds, grasslands, ponds and woodlands, with 525 bird boxes and 150 bat boxes

The North of the Park has a variety of habitats. What is a habitat?.....

Sit in the Parklands, make sure everyone is facing the same way and has a good view. Your teacher will give you the following instructions. Don't talk to each other, just think of the answers.

Close your eyes. Open your eyes and look down at the ground where you are sitting. What can you feel? Hear? See? Close your eyes. Open your eyes and look just in front of you. What can you feel? Hear? See? How is it different to what you just saw? Close your eyes. Open your eyes and look straight ahead of you. What can you feel? Hear? See? How is it different to what you just saw? Close your eyes. Open your eyes and look at the horizon. What can you feel? Hear? See? How is it different to what you just saw? Close your eyes.

Write down some of the things you have just seen and where they were.



Walk through the north of the Park. Can you find all the different habitats in this area? You may need to walk around to find them all.

Mark each of these habitats on the map;

- River
- Grasslands
- Shrubs
- Woodland (trees)
- Reedbeds
- Wetlands
- Ponds

Investigating Place!

East Village was the Athletes Village during the Olympic and Paralympic Games. Almost 16,000 athletes and team officials lived here during the Olympic Games, and 7,200 during the Paralympic Games.

Look around you – what can you see here? Draw or write your answers in the space below:

East Village has eleven residential blocks, each with five to seven buildings surrounding a courtyard. There are now just over 2,800 apartments. You can also find the local school - Chobham Academy, a health Centre, 35 shops and restaurants, and parklands in the 27 hectare site.

Here is a picture of the houses that used to be near here. How is it different?

