

# Brede High Woods

## Educational Resources

### Understanding maps

#### Unit in brief

##### Session aims:

To learn about maps and use a variety of map resources to find a range of information.

##### Curriculum Links

##### Geography Key Stage 2 –

Geographical enquiry and skills, fieldwork techniques, map reading, secondary sources of information and ICT. Knowledge and understanding of places, environmental change and sustainable development.

##### Geography Key Stage 3 –

Understanding the physical and human characteristics of real places. Knowing where landscapes and places are located and why. Appreciating different scales, physical and human processes, environmental interaction and sustainable development. Skills for geographical enquiry, fieldwork, graphicacy and visual literacy.

##### ICT Key Stage 2 –

Finding things out using the internet, developing computer skills

##### ICT Key Stage 3 –

Use a range of new and existing ICT tools via the internet including GIS to find information. Understand the impact of technology.

##### PE Key Stage 2 –

Fieldwork techniques. Geographical enquiry and skills – collect and record evidence. Increase knowledge and understanding of environmental change and sustainable development – how people can improve or damage the environment, and why and how people manage the environment sustainably.

##### PE Stage 2 –

Outdoors adventurous activities.

##### PE Key Stage 3 –

Outdoors adventurous activities.

##### History Key Stage 3 –









Historical interpretation and enquiry of the landscape, settlements and buildings. Local history study, reference to Saxons and Tudors.



# Brede High Woods

## Educational Resources

### Understanding maps

Structure	Activity title	QCA Curriculum links	Teacher notes	Student worksheets
Introduction	Unit in brief			None
Pre-visit activities	Understanding maps	<b>KS2:</b> Ge1.a, 2.a.c.d, 3.a.b.c.d.e, 5.a ICT1.a <b>KS3:</b> Ge1.1.a, 1.2.b, 1.3.a, 2.3.a ICT1.1.a.b.c, 1.2.a		None
On-visit activities	Understanding maps	<b>KS2:</b> Ge1.a, 2.a.b.c.d.f, 3.a.b.c.d.e, 5.a PE1.1.a.b.c <b>KS3:</b> Ge1.1.a, 1.2.b, 1.3.a, 1.5.a, 1.6.a, 2.1.a.b, 2.2.a, 2.3.a.b PE3.e		
Post-visit activities	Maps and places	<b>KS2:</b> Ge1.a, 2.a.c.e, 3.a.b.c.d.e, 5.a Hi3, 4.a, 7, 9, 10 <b>KS3:</b> Ge2.3.a	 	
	Magic maps	<b>KS3:</b> Ge1.1.a, 1.2.b, 1.3.a, 2.1.a.b.e, 2.3.a.b ICT1.1.a.b.c, 1.2.a, 1.3.a.c, 1.4.a		  



# Brede High Woods

## Educational Resources

▶ Pre-visit activity
On-site activity
Post-visit activity

## UNDERSTANDING MAPS

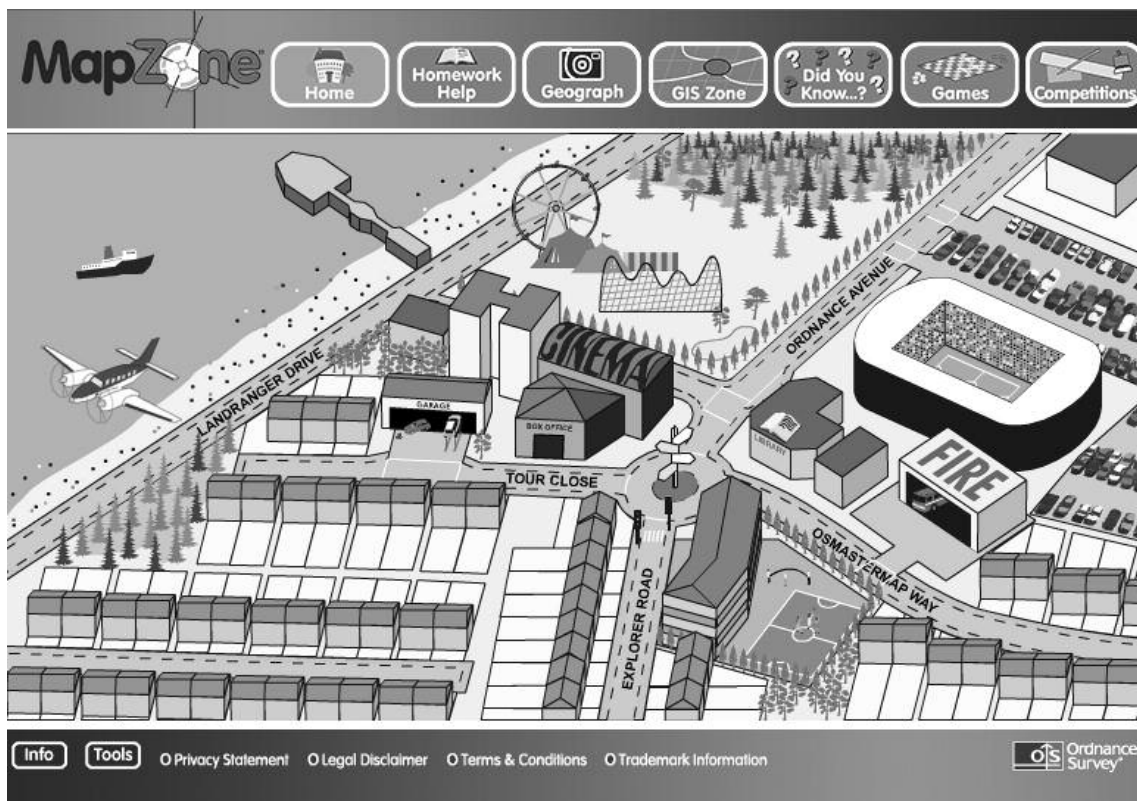
TEACHER'S NOTES

### Session aims:

To teach pupils basic map reading skills and how maps look different for different users and purposes.

As an introduction to map reading go to the Ordnance Survey website <http://mapzone.ordnancesurvey.co.uk/mapzone/> for interactive and downloadable games and activities to teach basic map reading skills.

Finding out about Geographic Information Systems (GIS) go to the GIS Zone at <http://mapzone.ordnancesurvey.co.uk/mapzone/giszone.html> to discover what GIS is and how people use it everyday. Click on the GIS Focus.



# Brede High Woods

## Educational Resources

Pre-visit activity

On-site activity

Post-visit activity

## UNDERSTANDING MAPS

TEACHER'S NOTES

### Session aims:

You can use the Brede High Woods access map (which you can download), Ordnance Survey explorer map, and aerial photograph with your group as you walk around Brede High Woods and complete your chosen activities. Use the three maps to compare the information on each with what is found on the ground itself.

Draw your own sketch map for Brede High Woods, include features of personal interest and that might help you find your way on a return visit.





# Brede High Woods

## Educational Resources

Pre-visit activity

On-site activity

Post-visit activity

## MAGIC MAPS

KS3 TEACHER'S NOTES

### Session aims:

To teach about Brede High Woods and how it fits into the wider countryside, to discover the types of information which we can find out from using maps in Geographic Information Systems.

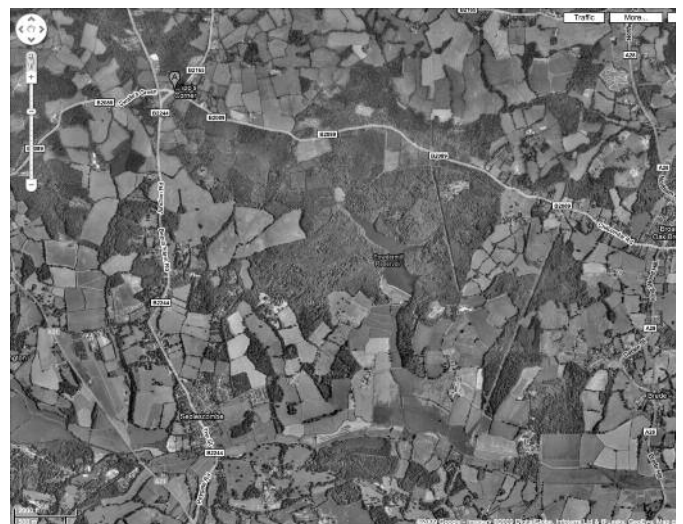
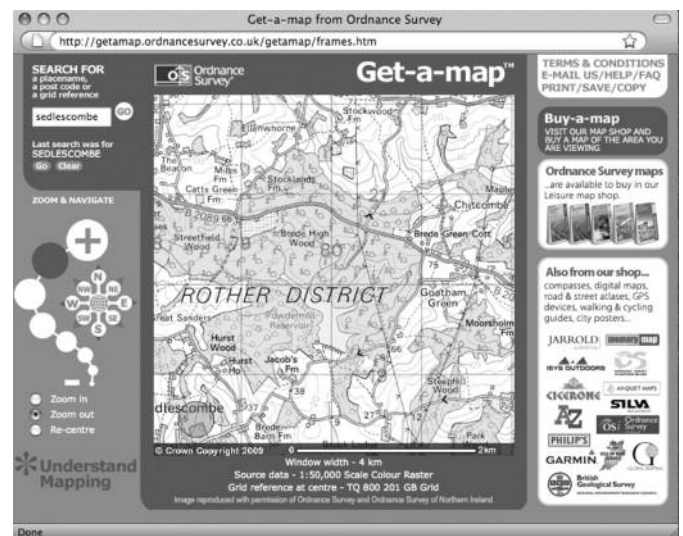
You will need access to computers with the internet. Pupils can work in pairs, you will need to print off the Magic Maps worksheet. You will need to unblock the pop-ups on the computers to use the interactive MAGIC map. The activity will take approximately 45 minutes.

### Question answers

1. Google map – place names, road names and numbers  
Ordnance Survey Map – in addition to the above, the map shows woodland types and names, fields, footpaths, tracks, farm names, contour lines, grid reference boxes and numbers, springs, watercourses and footbridges.
2. Ordnance Survey Map
3. Area of Outstanding Natural Beauty
4. Ancient and semi-natural, ancient replanted
5. No
6. TQ 796204 approximately
7. To the west of the woodland there is a triangle area, near Great Sanders, TQ 781199 approximately
8. 255 hectares approximately
9. Depends on size of school
10. People can use MAGIC to find out environmental information – this answer can list any of the layers from the map, eg local nature reserves, special areas of conservation. People can also measure distances, areas and find out grid references.

### Extension Activity

Use the internet to find out more about why the countryside where Brede High Wood is located is designated as an Area of Outstanding Natural Beauty (AONB), what is special about the countryside there and how big is the AONB?



# Brede High Woods

## Educational Resources

Pre-visit activity

On-site activity

Post-visit activity

## MAGIC MAPS

KS3 WORKSHEET 1 OF 3

You may find it helpful to refer to the Brede High Woods access map.

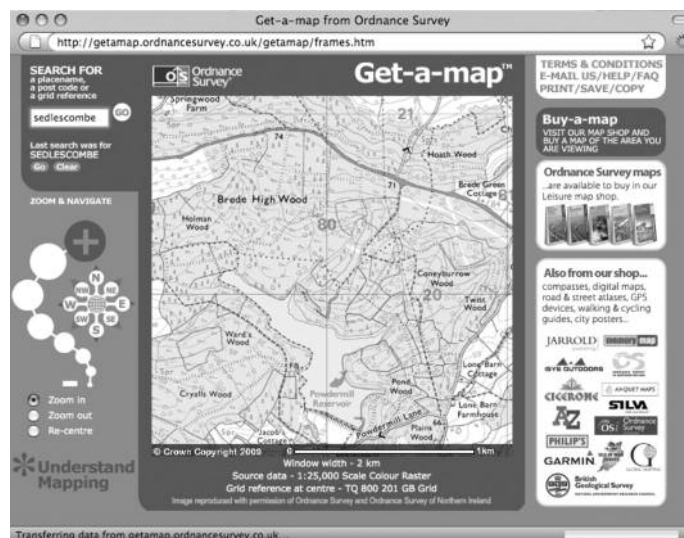
Look at Brede High Woods on these three websites and answer the questions.

*Helpful tip – tick off each bullet point as you go, so you know which parts you have already done.*

Go to Google Maps – <http://maps.google.co.uk/>

- Search for Sedlescombe.
- You will see the shape of the reservoir to the north east of Sedlescombe.
- Zoom in until the scale at the bottom is 500m.
- Then drag the map so that the reservoir is in the bottom middle of the screen.
- Zoom in until the scale is 100m, then zoom back out to 500m.
- Click where it says satellite on the top right of the map, you will be able to see the aerial photograph of Brede High Woods and the surrounding area.
- Click where it says map on the top right of the map.  
Open a new Internet window, leaving the Google map page open.  
Go to [www.ordnancesurvey.co.uk/getamap/](http://www.ordnancesurvey.co.uk/getamap/)
- Click on the pink circle that says 'I want to get a map now!'
- Search for Sedlescombe.
- Click on the re-centre button at the bottom left of the map and then click on the map itself to the north of the reservoir.
- To the left of the map are a series of circles gradually getting bigger, the size you are currently on shows as green. Click on the zoom out button at the bottom left of the map and then click on the next biggest zoom out circle until the scale at the bottom of the map is 5km.  
You will see some green areas on the map, these are the woodland areas.

- Click on the 'Zoom in' button and then click on the next smallest zoom in circle until the scale at the bottom of the map is 1km.



1. Look at both the map views on each of the websites; make a list of the differences between the two maps?

2. Which map would be most useful to a person walking?

Open a new Internet window, leaving the Google map and ordnance survey map pages open.

Go to [www.magic.gov.uk](http://www.magic.gov.uk)

This website is the **Multi-Agency Geographic Information for the Countryside**.

It is the first web-based interactive map to bring together geographic information on key environmental schemes and designations in one place.

# Brede High Woods

## Educational Resources

Pre-visit activity

On-site activity

Post-visit activity

## MAGIC MAPS

KS3 WORKSHEET 2 OF 3

You will need to unblock pop-ups or temporarily allow pop-ups in the Internet settings on your computer before you can use the interactive map.

- Click on the interactive map icon.
- In step 1 drop down menu select the topic – ‘Rural Designations Statutory’.
- In step 2, click on place and type in Sedlescombe.
- Tick the check box to agree to the terms and conditions.
- Click ‘Open Map’ – a new screen will appear, this may take some time to load, please be patient.
- You will see the map opens on a large scale and there are many coloured lines and symbols on the map. These are the different layers of information that you can switch on and off, as you need them. The list and key to the layers is to the right of the map. Click on the ‘list of layers’ tab.
- Un-tick all the boxes except for the following layers;
  - o Local Nature Reserves (England)
  - o Sites of Special Scientific Interest (England)
  - o Areas of Outstanding Natural Beauty (England)
- Click on the ‘Refresh Layers’ tab at the bottom of the list and close the layers list window.
- Use the other maps you have been looking at to help you locate Brede High Woods.

### 3. Is Brede High Wood located in any of the specially-designated land listed on the layers key?

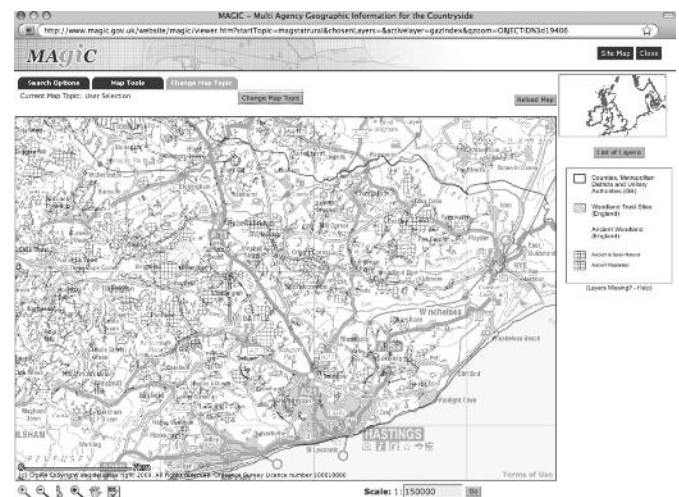
- Click on the outline of the UK icon at the bottom of the map, and you can see the number of Areas of Outstanding Natural Beauty in England.
- Zoom in by using the +magnifier icon at the bottom and clicking into central England.

- Click the search options tab at the top of the map, click on place and type in Sedlescombe, and click through the options.
- Change the scale for the map to 150,000.
- Click on the change map topic tab at the top of the map, then click on the blue change map topic box below.
- Click on ‘design my own topic’ and then click next.
- Tick on the following boxes;
  - o Ancient Woodland
  - o Woodland Trust Sites
- Click on the ‘done’ tab at the top of the list.

You can see the areas of different ancient woodland types.

### 4. What are the different types of ancient woodland shown on the map?

- Zoom in by using the +magnifier icon at the bottom and clicking into Brede High Woods (highlighted as Woodland Trust land on the key). Keep zooming until the scale on the map itself says 1km.



# Brede High Woods

## Educational Resources

Pre-visit activity

On-site activity

Post-visit activity

## MAGIC MAPS

KS3 WORKSHEET 3 OF 3

### 5. Is all of Brede High Wood ancient woodland?

- Click on the map tools tab at the top and click on the first icon to find out the grid reference.
- Click onto the middle of where it says Brede High Woods.

### 6. What is the 100m grid reference for Brede High Woods?

### 7. Looking at the map, consider where the reservoir is and the roads and houses are. Where would be a good place to plant trees to make Brede High Woods bigger?

- Click on the list of layers tab, un-tick the ancient woodland box, click on 'Refresh layers' and then close the layers list box.
- Click on the measure area icon above the map – it looks like a ruler with a shape above it. Follow the instructions and click all the way around the edge of the Woodland Trust owned area. After your first click a red shape will show, and then each time you click the previous point will be marked red. When you reach the point where you started, click blue 'Measure area' tab. The area shape you have made will show as a series of red dots joined by a red line.

### 8. How many hectares does the Woodland Trust own? Brede High Woods is the largest area of established woodland that the Woodland Trust owns in England.

- Click on the 'Search options' tab, click on postcode and enter the postcode for your school.
- Zoom in by using the +magnifier icon at the bottom and clicking on your school until you can see the buildings and the grounds clearly.
- Click on the map tools tab at the top of the map.
- Now use the measure area tool to find out the total area of the school and grounds.

### 9. How many times would your school fit into Brede High Woods?

### 10. Environmental professionals use MAGIC everyday in their work; list three things they could find out about using MAGIC.

*Well done you have completed the Brede High Woods MAGIC Map Challenge.*

