

Girlguiding Surrey West Geocaching Badge



The idea for this badge came about because the leaders at 3rd Guildford Guides are passionate about geocaching. During 2011 the leaders placed a number of geocaches at Herons Wey, Surrey West County Campsite, for the Guides to find during camp. The Guides in turn hid a cache themselves. The leaders thought there should be a guide challenge badge for geocaching. They also wanted to raise funds to purchase a GPS device for the campsite so that others can have a taster of this fast growing sport.

What is Geocaching? - Geocaching is a worldwide, high tech treasure hunt, a little like orienteering. You use a GPS (Global Position System) enabled device to locate the treasure (although some caches can be sought using just a map and compass)..

How it started - Geocaching was started in 2000 by an American who wanted to prove the accuracy of the improved GPS signals available to civilians. He hid some treasure, noting down the coordinates and sharing them online. Someone took up the challenge and located the treasure, sharing his experiences online. More treasure was hidden around the world and soon www.geocaching.com was formed as a database to house the details of the treasure and for people to share their experiences. There are other geocaching websites available.

Who Geocaches? - People from all walks of life geocache, from young to old, in organised groups, families or individuals. Each geocache has its own rating, which takes into account the difficulty and the terrain. This allows participants to seek out caches to suit their own fitness levels. The easiest being 1/1 and the hardest 5/5. The first figure is the difficulty and the second the terrain. Terrain of 1 is usually suitable for wheelchair users.

Equipment needed

For geocaching you need

- GPS device or a GPS enabled mobile phone. Grid references are given but it is easier to pin point the treasure using a GPS Internet access is needed along with membership to www.geocaching.com (other geocaching websites are available). Membership is free. By logging into geocaching.com you can see if there are any caches hidden in the locality you are interested in. ***This is not a pre-requisite of the badge, but is needed if wanting to find public available caches.***
- A map and compass are always useful when out and about so that you can spot footpaths and public rights of way.
- A pen or pencil to sign the log

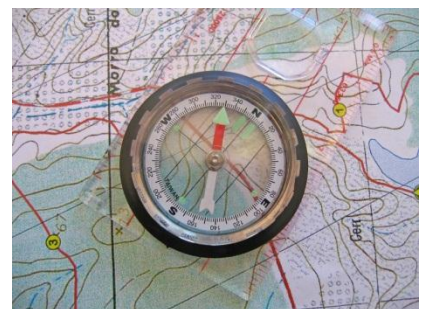
--oOo--

To gain this badge you need: -

- ❖ Draw up some safety rules for when going geocaching
- ❖ Produce an internet safety poster
- ❖ Find four geocaches. The geocaches may be like the ones at Herons Wey, private hides just for Guides, caches set by your own Guiders or live geocaches as published on www.geocaching.com or another geocaching website.
- ❖ To complete one clause from each of the following sections:

Mapping and compass work

- Play a compass related game. You may like to use the internet to look up some. Why not try looking on <http://dragon.sleepdeprived.ca/games/compass/compass.htm>
- Learn how to set a map with a compass
- Find north without using a map or compass but by using two of the following a watch, stars, local environment
- Make a collection of maps and street plans. Explain your selection to your patrol and explain when you would use each one.
- Play a game using map references
- Invent a game using ROT13,



A|B|C|D|E|F|G|H|I|J|K|L|M

N|O|P|Q|R|S|T|U|V|W|X|Y|Z
(letter above equals below, and vice versa)

Preparation

- Pack a rucksack suitable for a walk in the countryside in both summer and winter
- Know how to treat hypothermia, cuts, grazes, sprains, stings etc.
- Make a poster to demonstrate the country code
- Hide and find caches around your meeting place without being spotted
- Identify 5 different types of tree



Technology



- With an adult create a screen name for yourself/patrol/unit at geocaching.com or other geocaching website
- Find out how many geocaches there are within 5 miles of your home or meeting place
- Solve the crossword or word search on pages 6 or 7
- Name other devices which use satellite technology

GPS

- Take a GPS reading to find out your co-ordinates
- How does a GPS device work?
- Find out about co-ordinates
- Play the underground GPS game
- Why shouldn't you rely totally on a GPS whilst out walking? Why are spare batteries important?



Geocaching

- Find out what the following abbreviations terms mean: - DNF, FTF, GPS, GZ, muggle, TFTC, SL, TB
- Describe the different 3 types of geocaches, eg traditional etc
- What is the difference between difficulty and terrain rating of a geocache?
- Explain items that can and can't be placed in a cache



Useful websites

www.geocaching.com

www.opencaching.org.uk

<http://www.geocaching.com/guide/default.aspx>

http://www.geocaching.com/articles/Brochures/EN/EN_Geocaching_BROCHURE_online_b&w_A4.pdf

<http://www.girlguidingsurreywest.org.uk/Default.asp?page=473>

<http://www.barossalight.sa.scouts.com.au/games/compass-games.pdf>

<http://mapzone.ordnancesurvey.co.uk/mapzone/>

<http://www.ordnancesurvey.co.uk/oswebsite/education-and-research/teaching-resources/map-work.html>

<http://www.ordnancesurvey.co.uk/oswebsite/docs/teaching-resources/25k-map-symbol-flashcards.pdf>

<http://www.ordnancesurvey.co.uk/oswebsite/docs/teaching-resources/map-symbol-flashcard-games.pdf>

<http://www.ordnancesurvey.co.uk/oswebsite/docs/leaflets/map-reading-made-easy-peasy.pdf>

http://www.geocaching.com/articles/education/Adventure_Kit_Girl_Scouts.pdf

Links to Guide interest badges

Independent living

Finding your way

Survival

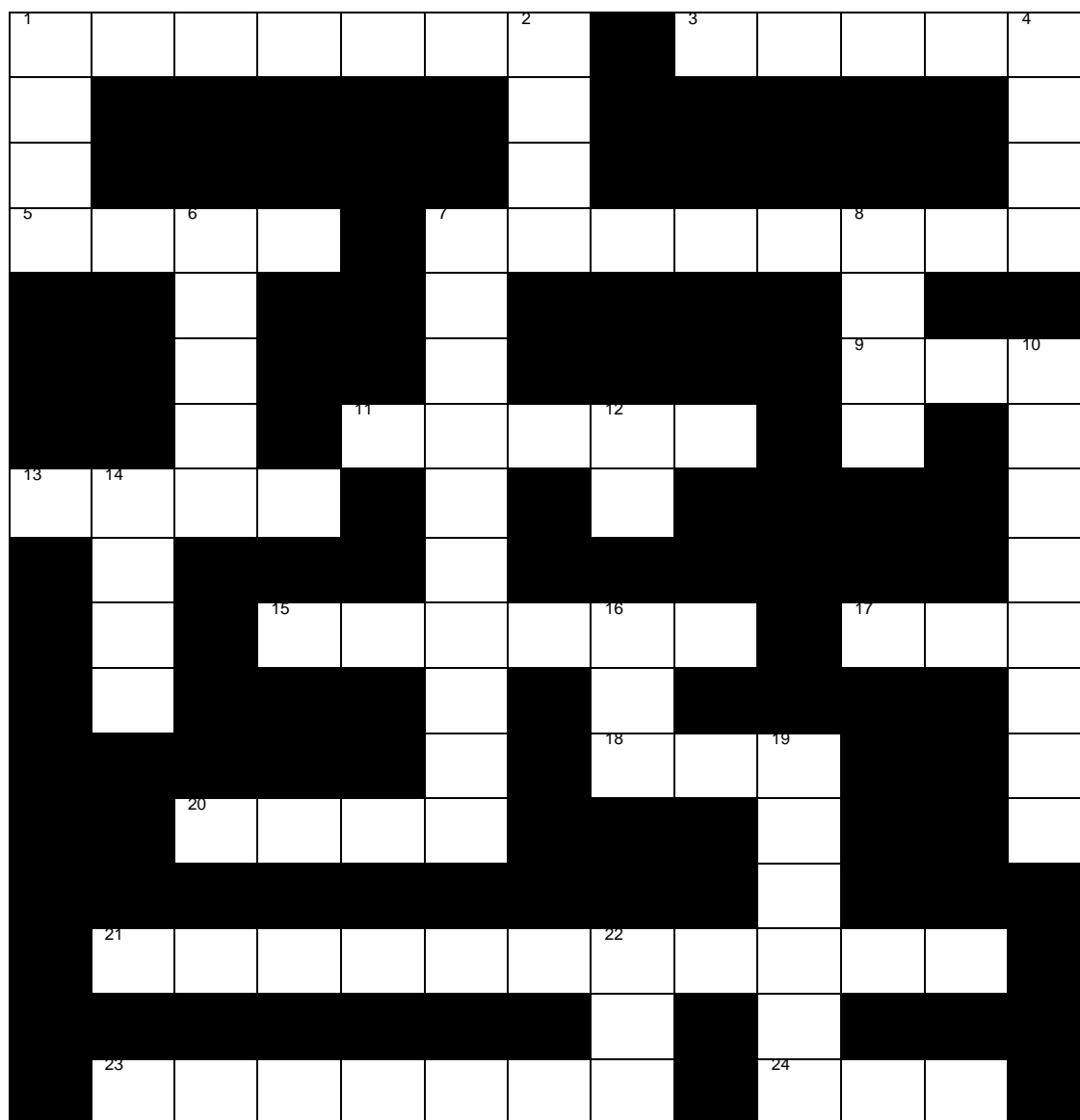
Log your finds.

Use this page to write a log of your finds to help you remember to log them when you return home.

Your Screen Name _____

Date	Cache No	Cache Name	Your Comments

Crossword



Across

- 1 – Use this to be sneaky (7)
- 3 – Meet people at this cache (5)
- 5 – Tiny cache container (4)
- 7 – What you're looking for (8)
- 9 – Couldn't find this one (3)
- 11 – Cache with lots of stages (5)
- 13 – Thanks for the cache (4)
- 15 – Question Mark logo (6)
- 17 – Find your way with this (3)
- 18 – Global Positioning System (3)
- 20 – Pick up litter (4)
- 21 – Original cache type (11)
- 23 – Not urban (7)
- 24 – Latitude abbreviation (3)

Down

- 1 – Points you the right way (4)
- 2 – Cover over (4)
- 4 – Oak, for example (4)
- 6 – Cache found in the dark (5)
- 7 – GZ (6,4)
- 8 – Hints are written in this (4)
- 10 – Walk along this (8)
- 12 – Travel bug (2)
- 14 – Discover the cache (4)
- 16 – Sign this at the cache (3)
- 19 – The frog mascot (6)
- 22 – This often covers trees (3)

Word search

A	T	R	A	D	I	T	I	O	N	A	L
H	E	G	M	S	W	A	P	S	R	T	D
I	R	P	H	G	N	M	T	Y	I	H	K
D	T	W	A	L	K	I	N	G	O	G	E
E	Q	Y	I	J	P	S	Y	G	P	L	N
Y	L	F	P	F	O	O	T	P	A	T	H
K	O	G	U	B	I	Q	I	S	L	O	B
P	C	W	Z	D	K	N	E	O	T	M	C
Z	A	I	Z	V	H	R	D	E	R	E	W
I	T	N	L	O	C	S	U	M	Y	R	J
O	E	K	E	G	E	O	C	A	C	H	E
S	E	R	F	D	H	Y	U	P	X	A	D

MAP

LOCATE

GPS

PUZZLE

HIDE

FOOTPATH

SIGN

WALKING

FIND

GEOCACHE

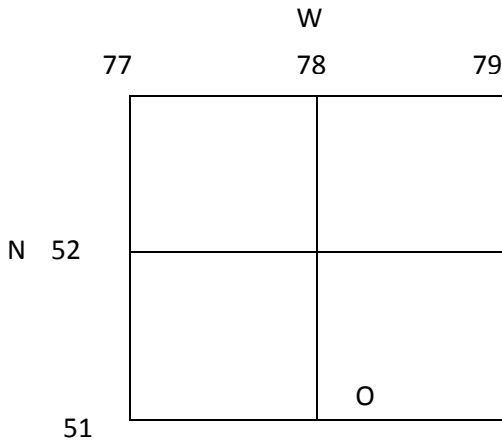
SWAPS

TRADITIONAL

(Note the map GPS co-ordinates are not correct – this is just for the purposes of the game)

Underground GPS Game

Answer the questions, using the GPS London Underground map. Co-Ordinates are given as N 51° 20.???, W 000° 39.???



To find the ??? numbers, the grid will tell you the first 2 numbers, and the last one you will have to work out by dividing each grid into 10. If the station is on the grid line, the number will be 0

Example: In this grid, the o is located above the N 51 line and about half way up the square, so the ??? for the N number is 515

The o is also located to the right of the 78 line, and about 3/10 along the square, so the ??? for the W number is 783

So for example, using the map, Waterloo Station becomes

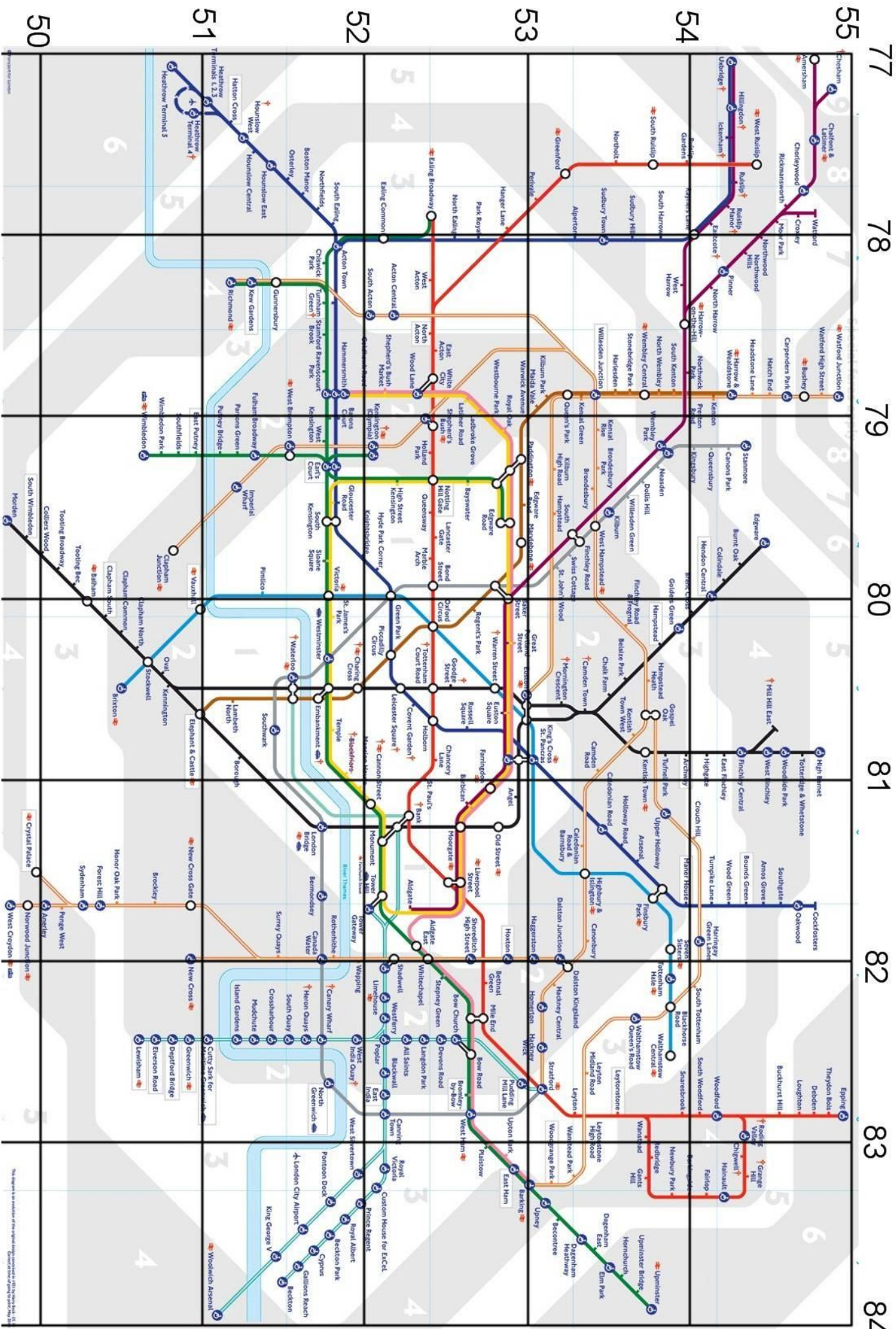
N 51° 20.[515](#)

W 000° 39.[855](#)



N 51° 20.???

W 000° 39.???



This map is a reproduction of the official London Underground map, published by Transport for London (TfL) in 2015. It is not to scale and is intended for general reference only. For detailed information on routes and timetables, please refer to the official TfL website.

Questions

1. What are the co-ordinates for Brixton?

N 51° 20.____

W 000° 39.____

2. What are the co-ordinates for Oxford Circus?

3. Which station is located at N 51° 20.545 W 000° 39.797

4. What are the co-ordinates for Woolwich Arsenal?

5. Which station is located at N51° 20.549 W000° 39.828

6. Which station is located at N51° 20.500 W000° 39.797

7. What are the co-ordinates for Kilburn?

8. Which station is located at N51° 20.544 W000° 39.776

9. What are the co-ordinates for Angel station?

10. Which station is located at N51° 20.522 W000° 39.803



Crossword Answers

S	T	E	A	L	T	H		E	V	E	N	T	
I						I						R	
G						D						E	
N	A	N	O			G	E	O	C	A	C	H	E
		I				R					O		
		G				O					D	N	F
		H		M	U	L	T	I			E		O
T	F	T	C			N		B					O
		I				D							T
	N		P	U	Z	Z	L	E			M	A	P
	D					E		O					A
						R		G	P	S			T
		C	I	T	O					I			H
										G			
	T	R	A	D	I	T	I	O	N	A	L		
							V			A			
	C	O	U	N	T	R	Y			L	A	T	

Underground Game -**ANSWERS**

1. N51° 20.505 W000° 39.805
2. N51° 20.524 W000° 39.802
3. Edgware
4. N51° 20.511 W000° 39.839
5. Epping
6. Colliers Wood
7. N51° 20.535 W000° 39.795
8. West Ruislip
9. N51° 20.529 W000° 39.811
10. Piccadilly Circus

Girlguiding Surrey West Geocaching Challenge Badge Order Form

To order badges, please return this form and payment to the address below.

Unit: _____

County: _____

Leader: _____

Address where badges should be sent:

Contact Phone

Number: _____

Email

Address: _____

Number of badges @ £1.00 each	£	
Post and Packaging - 1-25 =75p, 25-50 =£1.25, 50-100 =£1.75, 100-200= £2.25	£	
Total enclosed	£	

Please make cheques payable to: **Girlguiding Surrey West** and post to

Surrey West Geocaching Challenge Badge
 Girlguiding Surrey West County Office
 Midway House
 Guildford
 GU1 4RP