GEOCACHING LANCASTER UNIVERSITY

Geocaching is an outdoor sport activity based on GPS (Global Positioning System). Players use a receiver or mobile device and other navigational techniques to hide or look for containers, called "geocaches" or "caches".

The cache is usually in a waterproof plastic container with a logbook where geocachers write their registered nickname and date they find it. Larger containers usually contain items for trading like plastic toys, hockey cards or special trackable items called Travel Bugs or Geocoins. Trackable items are logged on the website and moved from cache to cache.



RULES!

Do not leave the university campus

Take care on roads- they're fairly quiet but cars still drive up and down.

People live and work here. Don't be a nuisance! Don't be messing about and shouting around the buildings.

Don't even go near the fence between the woods and the motorway.

Stay in your groups! Nobody should be alone.

Watch the time and make sure you're back at the meeting point by 8:20. There's a number of caches hidden around the University campus. Your task's to find as many as you can, write your group ("16th Lancaster Cubs") and names neatly on the sheet or in the logbook and then put the cache back **exactly** as you found it.

You'll need a GPS device, which might be a smartphone. You might be with a leader, and it might be their phone you're using, or you might have been lent a phone. **Be careful with them, they're delicate and cost a lot of money**.

The coordinates are in the table on the back of this sheet. You need to type in the coordinates of the cache you're going after, and then the device will show you which direction to go in and how far away you are. It doesn't know what the safe route is, though- you need to figure that out for yourself. It's useful having a map and finding the location of the cache on the map, using the grid references, so you can work out the best route. When you get close, you'll have to look for the cache- it will be hidden, and although you might have clues you'll have to look carefully. When you find it, **make sure you**

know where it is and how it's hidden so you can put it back as you found it!

Sometimes the description isn't enough and it's really hard to find the cache, so there's an extra hint. But so you don't just read the hint it's written in a code called "ROT13". This is a code called a Caesar Cipher, where each letter is swapped with another. The picture shows the swap and shows how you'd encrypt the word "HELLO" to become "URYYB" and back again.



Name	Lat/Long	OS Grid	Description	Hint
Campus Trail: Avenue	N 54° 00.782" W 002° 47.683"	SD 48020 57738	Many of these trees are now reaching the end of their lives and are in the process of being felled. The increased light will promote the growth of the remaining indigenous species, while their trunks will be cut up and left to provide decaying timber habitats for insects and other small animals.	Orgjrra gur yvivat naq gur qrnq
Campus Trail: The Duck Pond	N 54° 00.783" W 002° 47.402"	SD 48327 57736	A cache located just off the Campus Woodland Trail down by the duck pond.	Qhpx qbja. Srry nebhaq. Ab arrq gb trg lbhe srrg zhqql (naq rnfvre vs lbh qba'g!)
Campus Trail: Amongst Old Trees	N 54° 00.898" W 002° 47.577"	SD 48138 57951	A relatively straightforward offset multi. Details of the distance and bearing of the final cache location from the chestnut tree are hidden amongst some other old trees at the published location.	1. Unatvat ba srapr 2. Fznyy ybpx-naq-ybpx. Vafvqr gerr. Fgvpxbsyntr
Campus Trail: The Beech Grove	N 54° 00.853" W 002° 47.012"	SD 48755 57861	This section of the woodland trail passes through some fine old trees, with the most imposing being a stand of beech, which present a lovely sight at any time of the year but especially in the spring when their leaves are fresh and green	ybt va n ybt va n ybt
Campus Trail: The Pixies' Letterbox	N 54° 00.715" W 002° 46.936"	SD 48835 57605	The Pixies' House commands a fine view from its open-plan upper halls. But can you locate their letterbox?	Gel gur genqrfzra'f ragenapr
Campus Trail: The Cuddling Trees	N 54° 00.589" W 002° 46.910"	SD 48861 57370	A small cache hidden in the middle of two trees grown entwined together like old lovers	va orgjrra
Motorway Mudness: LU BMX!	N 54° 00.390" W 002° 46.910"	SD 48857 57001	Deep in the woods, where GPS coverage is poor, strange things are afoot. Bring your stout footwear, your earplugs and be on your guard against two-wheeled vehicles, and termites or mega-moles, perhaps?	jner pbapergr enoovgf
Campus Trail: Stile? What stile?	N 54° 00.192" W 002° 47.470"	SD 48239 56642	This cache was originally hidden just over a stile that must have once led somewhere the fence and the stile have since gone. And now the cache similarly	Oebja enoovg-cebbs
Campus Trail: The Vault	N 54° 00.365" W 002° 47.421"	SD 48298 56961	Hunting for caches along the trim trail does not have to be strenuous	bnx
Campus Trail: Kissing Gate	N 54° 00.543" W 002° 47.440"	SD 48280 57293	A cache close by the Lancaster University Trim Trail. Please do not attempt to remove the cache container from its tie	vil
Campus Trail: Stay in Trim!			See separate page	
Campus Trail: Bonus Cache			Make sure you collect the letter and its numerical value from each of the other campus trail caches	
Uni challenge			See separate page	

Campus Trail:	N 54° 00.340	SD 48298	The published coordir	nates are for the sta	rt of the campu	s Trim Trail, where you	will find a map of the vari	ious exercise
Stay in Trim!	W 002° 47.420	56915	stations making up the trail. To locate the cache itself, you'll need to exercise the little grey cells as well as some of your					
,			muscles.					
			Sam North and Hayle	y West enjoy exercis	ing and keeping	g in trim. They use the L	ancaster University Trim T.	Frail at least
			once per week as the	ir regular workout. ⁻	They like to wor	k out together but find	that some of the exercise	e stations
			cannot conveniently k	pe used by two peop	ole at a time. To	accommodate this, as v	well as to tailor their exer	cise
			programmes to their	individual needs and	l preferences, th	ney've devised a set of in	ndividual variations that le	ets them start
			together and do some	e exercises at the sa	me place and th	e same time, and finish	together, without either	of them
			having to wait for the	e other to finish usin	g any of the equ	uipment.		
			For the workout, they	/ each perform <mark>6</mark> lap	s of the Trim Tr	ail, following the numb	er of repetitions of each e	exercise
			recommended at eac	h of the exercise sta	tions but with th	ne following variations:		
			Sam doubles	the exercises on Val	ult. Straddle Jun	np. Press ups and Chin-u	ups on each lap	
			Havley skips	Tvre Hopscotch on e	ach lap, but do i	ubles all Situps		
			To find the location o	f GZ. vou will need t	o work out the	total tally of exercise re	epetitions that Sam and H	avlev each
			perform during their	work-out session. Th	eir two tallies tl	nen supply the missing i	numbers of the following	set of
			coordinates for the ca	ache:		11.5 5	5	
			N 54° 00.???					
			W 002° 47.???					
			As a check, the total of	of all of the missing	digits is 24. The	final cache location is o	n the University campus.	Hint: L
				5	5		5 1	
			Evercice station	Pocommondod	v6 lanc	Sam	Havley	1
			Exercise station	repotitions	xo laps	Salli	пауюу	
				repetitions				
		1	turo honccotch					
		1	tyre nopscotch					
			vault					
			vault ladder walk					
			vault ladder walk sit ups					
			vault ladder walk sit ups step ups					
			vault ladder walk sit ups step ups press ups					
			vault ladder walk sit ups step ups press ups straddle jump					
			vault ladder walk sit ups step ups press ups straddle jump sit ups					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles chin ups					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles chin ups balance beam					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles chin ups balance beam sit ups					
			vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles chin ups balance beam sit ups					

Campus Trail:	N 54° 00.660	SD 48081						the last
Stay in Trim! ANSWER	W 002° 47.624	57512	Exercise station	Recommended repetitions	x6 laps	Sam N: 660	Hayley W: 624	6
			tyre hopscotch vault ladder walk sit ups step ups press ups straddle jump sit ups pole climb hurdles chin ups balance beam sit ups	1 10 1 10 5 10 10 10 1 1 5 1 1 5 1	6 60 60 30 60 60 60 6 6 30 6 6 60	$ \begin{array}{c} 6 \\ x2 = 120 \\ 6 \\ 60 \\ 30 \\ x2 = 120 \\ x2 = 120 \\ 60 \\ 6 \\ x2 = 60 \\ 6 \\ 60 \\ \end{array} $	x 0 = 0 60 6 x2 = 120 30 60 60 x2 = 120 6 30 6 x2 = 120 6 x2 = 120	Five Ashes Ln

University	N 54° 00.196	SD 48596	A = 576	5
Challenge:	W 002° 47.144	56646	B = 70	Graduate Ln
Lancaster			C = 1974	odia
ANSWER			D = 22	Alexa
			E = 2	
			F = 4	
			G = 1691	3
			H = 1012	a high
			l = 55	• Hate
				6 min drive - home
			X = H - A - D - (F x I) + 2 = 196	drapat
			$Y = C - G - (E \times B) + 1 = 144$	Alexante
				Der 1
				2
	1	1		

Campus Trail: The Bonus Cache	The Bonus cache in the need to collect the num	Nyzbfg gur ynfg bar!		
Cacile				
	Cache	Letter	Numerical value	
	Stile? What stile?			
	Stay in trim			
	Vault			
	Kissing gate			
	Duck pond			
	Avenue			
	Amongst old trees			
	Beech grove			
	Pixies letterbox			
	Cuddling trees			
	The cache is located at: N 54° 00 . Z+Y+X+W+V+ W 002° X+Y . Q+R+S+T+	-U+T+S+R-Q -U+V+W+X+Y-Z		

Campus Trail:	N 54° 00.307 W 002° 47 5	SD 48209	Cache	Letter	Numerical value
Cache ANSWER	W 002 47.3	50050	Stile? What stile?	V	4
			Stay in trim	x	22
			Vault	S	43
			Kissing gate	t	11
			Duck pond	W	8
			Avenue	r	34
			Amongst old trees	Z	357
			Beech grove	u	9
			Pixies letterbox	У	25
			Cuddling trees	q	206
			N: 357+ W: 22+25.2	-25+22+8+4+9+11+43+34 06+34+43+11+9+4+8+22	-206 = 307 +25-357 = 47.5

University Challenge: Lancaster	N 54° 00.X W 02° 47.Y	1) What was the birthdate of Princess Alexandra, the first Chancellor of the University? A = 2512 - 1936 =	Gurer vf n pnc zvffvat ba gur arneol fgerrg anzr fvta. Gur pnc jnf
	X = H - A - D - (F x I) + 2 = ? Y = C - G - (E x	2) How many sixes did Clive Lloyd hit during his Test career? B = 70	abg zvffvat jura gur pnpur jnf cynprq naq urapr gur pnpur vf abg
UNIVERSITY	B) + 1 = ?	3) In which year was the outcome of the Roses Tournament a draw? C = 1974	ybpngrq va gur ubyybj cbyr abj ivfvoyr.
Colleges: County Bowland Furness		4) The Sugar House, on Sugar House Alley, is the LUSU-owned nightclub in Lancaster City Centre. What is the sum of the five digits in the telephone number for the club (excluding area code)? D = 63508 =	The cache itself is a nano/micro (big nano, small micro). It is not on University property.
Fylde Grizedale Pendle		5) How many of the nine colleges have names that begin with the letter F? E =	
Graduate Lonsdale Cartmel		6) Although the current University logo takes the form of a shield derived from the University's original coat of arms, the pre-2014 logo instead featured a representation of the spires of the aforementioned Chaplaincy Centre. How many of these red lines are there in that logo? $F =$	
		7) In what year was the death of George Fox, founder of the Quakers? G = 1691	
		8) On what date was the company BAE Systems formed? H = 3011 – 1999 =	
		9) In 1981, approximately 1400mm of rainfall was recorded at the nearby Hazelrigg Weather Station (itself owned and managed by the Environmental Science department of the University). How many inches is this (whole number only)? I = 55	