

Engineer's Geo-quiz

Science in the Park June 2020

This table lists the 10 locations for the Geo-quiz. For further notes and instructions scroll to the end of the table.

Enjoy!

#	Location	Questions	Answers
A	https://w3w.co/inner.mild.brief SO 77911 45791 52.110002, -2.323959	1. Can you name 3 different ways you can pay for parking? 2. Which of these requires a network connection?	
B	https://w3w.co/plug.trees.result SO 78115 45029 52.103156,-2.32093	3. You should be near a railway bridge. What is the height limit of the bridge? 4. Would you get a London double decker bus under it? ⓘ There might be more than one answer.	
C	https://w3w.co/demand.twig.hoot SO 78040 44490 52.098305,-2.321984	5. Look for a manhole cover on the east side of the small tunnel. What is the combined weight of the two covers? 6. In the tunnel, on the south wall, there is an artist's name on the wall. Who is it?	

D	https://w3w.co/lists.list.recent SO 77643 44491 52.098305,-2.327823	7. There are four covers covering something. Who made the covers? 8. What is underneath them (don't try and lift them up)?	
E	https://w3w.co/mirror.hats.level SO 77531 44858 52.101593, -2.329448	9. Look south through the gates and along the drive. What from the canine world can you see? 10. If you look to your right at the right-hand gatepost you can see a small tree. What type of tree is this? ① Try using Google lens to help you. If your phone doesn't have a network signal take a picture and try Google lens on the picture later.	
F	https://w3w.co/bucked.royal.tight SO 77570 44962 52.102536, -2.328877	11. You should see a concrete lamp post. What is the painted number on it? 12. Further down the lamp post is a symbol that looks like a heart. What does this symbol mean?	
G	https://w3w.co/label.motion.translated SO 77713 45154 52.104261,-2.326813	13. Look east at the college building. What time is on the clock? (BTW it has stopped) 14. What two times could this translate into if you use the 24-hour clock?	
H	https://w3w.co/fats.zooms.hips SO 77725 45228 52.104935,-2.326638	15. If you look east, you should see a green plaque. What was developed and pioneered here? 16. What was the name of the establishment that was the first to replace the one named on the sign?	

I	https://w3w.co/brand.carbon.going SO 77756 45489 52.10728, -2.326199	17. You should see two small blue signs near the ground with SV written on them and some numbers. What are the numbers? 18. What is the sign referring to?	
J	https://w3w.co/whites.invest.giant SO 77782 45801 52.110082, -2.325847	19. You are standing in front of a polygonal building. On the steps leading into it are various initials. Look at the top step. Look at the middle three bricks. The nine letters (without the dots) are the decryption password for the image we sent you. Who is in the image? 20. What is this person in the image famous for? ⓂNo clue about who – try Google Lens again 21. Who made the polygonal building and where was it made? BTW: if you understand the formula you must already be an engineer, physicist, or mathematician.	

Notes:

- Each location can be found either by:
 - What3Words word string, or
 - Grid reference, or
 - Latitude and longitude
- You can visit the locations in any order you like. The order above is about 3 miles if you walk the shortest path. You can cycle, but this may be a longer route. However there is no race, take as long as you need.
- For each location there are questions for you to answer, usually of an engineering nature.
- Get all or at least the odd numbered questions right we will send you a solar car kit for your efforts.
- What you will need to help you:
 - A fully charged smart phone with GPS (i.e. the phone can tell you where it is)
 - What3 Words app, Ordnance Survey (OS) app or Google map app.

- An app to read either MSWord or pdf
- Google lens may come in handy
- Good shoes, some water, sun cream if sunny and a raincoat if raining
- Safety:
 - As usual be careful when crossing roads
 - And, depending on your route choice, some of the paths may be a bit slippery
- Answers:
 - You can type your answers in the table above (you will probably need the MS Word version)
 - Or just list them in an email
 - Send the answers to Rick at Richard.Barfoot@ietvolunteer.org by Sunday 28 June, 4 pm (16:00 hours)
- ⓘTips:
 - You can use What3Words to pinpoint the location
 - Use the navigate button to take you to Google maps
 - And use Google maps to help you navigate – but note it doesn't know about all the tracks so won't necessarily take you on the shortest route
 - The OS Standard map app is free and has the tracks
 - Note, if the signal on your phone is poor wander around a bit
 - Yes, you could be smart and just try Google Street View – but this will only give you one answer!
 - In many cases you may need to look stuff up on your phone
 - Don't forget to charge your phone battery before you set out