

22 Campus Logistics



Did you know we have a portering team on campus, who help all the researchers and teachers do their jobs by making sure that post and parcels get to the right buildings and rooms on campus?

YOUR CHALLENGE: Using the map on the opposite page, can you help the Porters work out the best way to complete the tasks below?

Challenge A The porters have been asked to drop off post at the seven departments and Warwick Arts Centre, what's the smallest number of squares they would need to travel through to do so? You need to start and finish at the porter's lodge.

Challenge B If the main road was closed (where the Xs are) because of graduation, what would now be the shortest route to drop off post at all seven departments and Warwick Arts Centre? You need to start and finish at the porter's lodge.

Challenge C For this challenge we're going to imagine the portering team are moving much bigger things than post and parcels as they often help move equipment, furniture and even prototypes.

If the porters can fit 9m^3 (cubic metres) of stuff in their van at any one time, what is the smallest number of squares they would have to travel through to move all the stuff below from one building to another (graduations are over). You need to start and finish at the porter's lodge.:

5m^3 from Physics to Engineering
 3m^3 from Classics to Law
 7m^3 from Design to Engineering
 6m^3 from Medicine to Physics

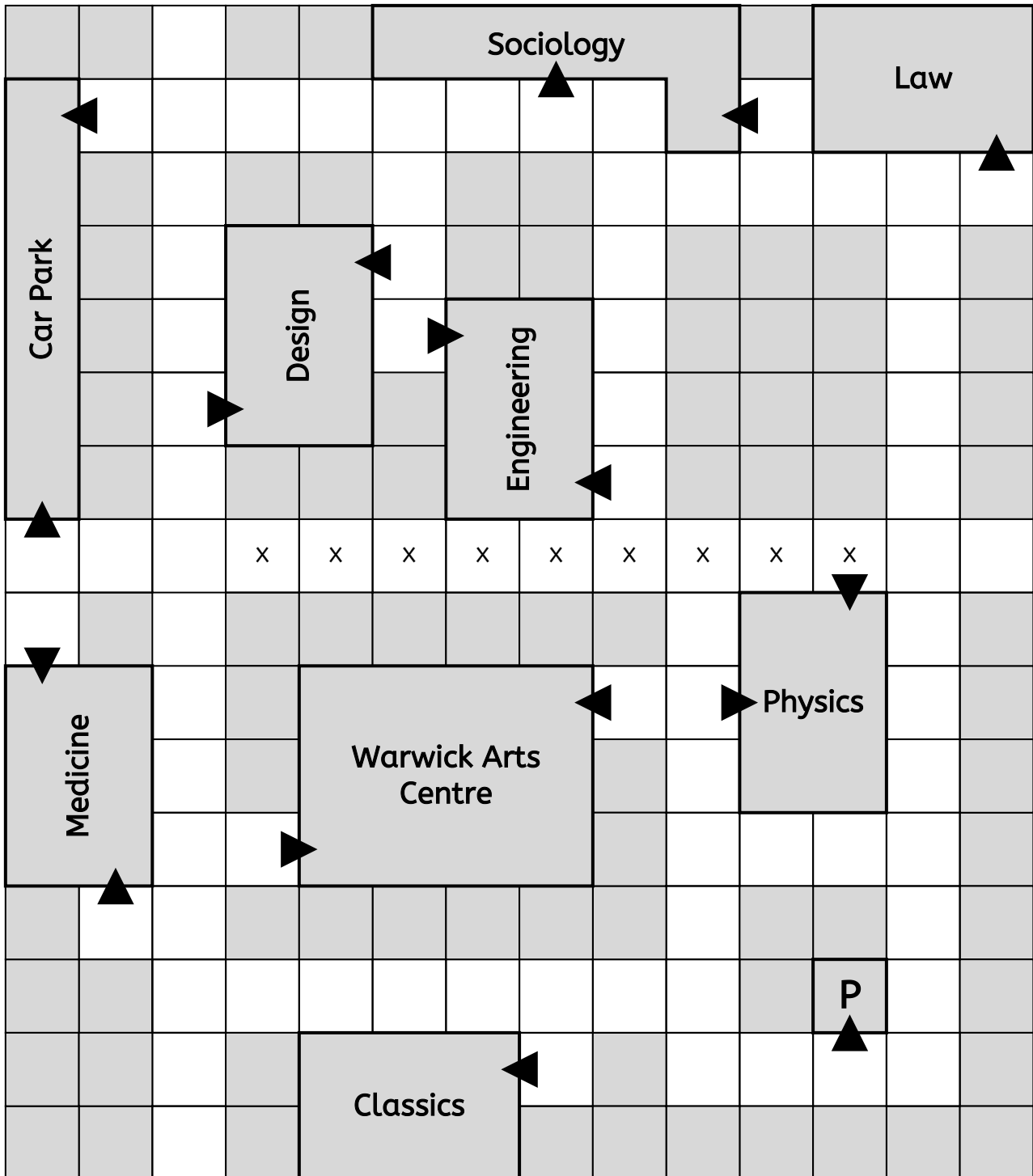
Hint – this might not be the best order to do it in!

The porters are one of many specialist teams at the university that support the people working and studying here. Along with the porters we have cleaners, gardeners, cooks, community safety officers, parking attendants, building supervisors, and lots of other great people working together to make the university function.

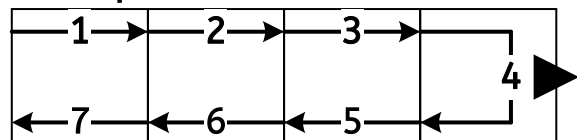
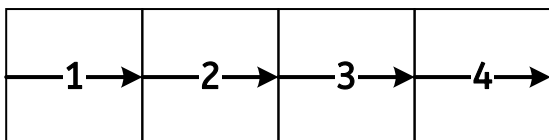
Without these specialist teams the university would come to a complete stop and we're very grateful to each and every one of them for what they do.

Key to Map

- Road (travel in both directions)
- P Porter's Lodge
- Grass or other buildings
- Building Entrance/Exit
- X For Challenge 2 only



How to Count the Squares



You need to count a new square every time you cross over a line to enter it, entering a square and turning round in it to change direction only counts as 1