St Dominic's College Maths Trail - California Hills Park, Ballyfermot.

Station	Position	Level (a) (Early Primary School)	Level (b) (Late Primary/Early Secondary)	Level (c) (Late Secondary School)
1	**Traffic Lights beside small post**	Complete the sequence of colours; green, orange red, green, ……,……,……,………,	If the sequence of lights goes green, orange, red, and repeats in this sequence continuously, what colour will the 10th, 34th and 100th lights be?	If the distance from one set of lights to the next is approximately 100m, count how many seconds it takes a car to travel this distance. Estimate the speed of the car in m/s.
2	**Tree across from blue building**	Name the shapes you can see on the building in front of you. How many edges can you find?	What types of triangles can you see? What types of lines can you see?	The blue triangles on the building in front of you are congruent to each other. What does the word 'Congruent' mean? How would you show that two triangles are congruent to each other?
3	**First blue exercise station**	Name the shapes you can see on the exercise station.	Estimate the number of holes you can see on the four benches?	What is the ratio of yellow to blue poles? What percentage of the poles are blue?
4	**End of 2nd blue station**	How many vowels can you see on the road sign? Do any of the letters have symmetry?	Are the two bars parallel? Estimate the ratio of heights of the 3 blue poles.	Estimate the 3 angles made by the 3 blue poles on the ground.
5	**Where the paths cross**	Name the shapes you can see on the green fence. Estimate the height of the biggest tree located beside the fence.	Looking down at the paths from the sky, are the paths perpendicular or parallel?	Estimate the angles made where the two paths meet.

6	At gate near stone monuments	What shape is made by joining the 3 stone monuments?	From open to closed estimate the angle made by the gate. What type of angle is this?	Estimate using your hands or feet the height, width and depth of the large stone on the right. Calculate the approximate volume of the stone.
7	In front of block of houses	In the 16 houses in front of you estimate how many people live in each of the houses? Approximately how many people live in the houses in total?	Estimate the total number of people living in the 16 houses opposite. Calculate the average number of people per household based on your guess? There are 3 ways to find an average- what are the three methods called?	Using an estimate of your own height estimate the height of the pole. Estimate the distance from the base of the pole to one of the wires on the ground. Estimate the length of the wire.
8	End of path with green area to right	By counting your steps estimate the distance between the first two trees. Now estimate the distance from the first tree to the last one.	If the two wires that meet at the top of the pole form an isosceles triangle with the ground, estimate each of the angles in the triangle.	Is the grass section on your right is in the shape of a triangle? Estimate the area of the grass.
9	Between 2nd and 3rd Pole	How many cars are outside each house? How many cars are there in total? Is there enough space to park all of these cars in drives? Where could more space be found?	Looking at the block of houses in front of you, how many lines of symmetry can you find? Can you see any repeating patterns in the design of the houses -colours,shapes,etc?	Are the poles along this path equidistant? Are the poles collinear?
10	At end of path near entrance gate	What shapes were used to build the apartment block across the road? Can you see any lines of symmetry? Estimate the number of people living in the apartment block.	Estimate the distance you have walked on this trail. Estimate the time it has taken you to walk the trail. Estimate the speed you walked the trail at?	Kylemore College was established in 1964. What age is the school now? What age will it be in 2025?