

Hypothesises : Immanuel College students can safely walk from Apperley Bridge train station.

Location Apperley Bridge train station
Local within walking distance, safe-paths, crossing points & canal, cheap don't need a coach, range of survey points with enough variation to collect enough data

How was evidence collected Apperley Bridge train station
Pedestrian flow count and Traffic flow count
Opportunistic sampling technique- recorded the traffic and pedestrians for 5 minutes in each direction.
Sample size by counting for 5 minutes we had a large enough sample to be valid but not too time consuming.
We used 5 locations between school and the newly built train station

Secondary evidence Crime figures
I used Police.UK website to investigate crime figures
Sampling technique- looked number of crimes committed on the four streets between school and the train station.
Sample size we looked at the crime figures for the last 3 months . This is a large enough sample to be valid but not too time consuming.
Quantitative technique collected factual data.

How was evidence collected Annotated photograph
We took a photo at each of our 5 sample sites.
Systematic sampling technique- we took a photograph on each of the 4 streets and the canal
Sample size 5 photographs- large enough sample to be valid but not too time consuming.
Qualitative technique collected opinion data.

What conclusions
Immanuel College students can safely walk from Apperley Bridge train station. The Pedestrian flow count and Traffic flow count showed that Leeds Road and Harrogate road are the busiest and could be a danger to Pedestrians. Students did not need to cross these roads so the danger would be minimal. This proves the hypothesis and shows that it is safe for Immanuel students to walk from the train station. The Annotated photograph showed that a number of measure had been put in place on Apperley Road to ensure that pedestrians are safe including speed bumps. The photos clearly prove my hypothesis. The secondary data I obtained from Police.UK website clearly shows that over 3 months 16 crimes were committed on Leeds Road. This is a low figure for a large city like Bradford and all students use Leeds road to access the school. This also proves my hypothesis that students can safely walk from Apperley Bridge train station .

How was data presented:

Pedestrian flow count and Traffic flow count- flow map showing the direction that the pedestrians and cars were travelling. The arrows were 1mm wide for each pedestrians and car.

Strengths- Map shows the direction of the pedestrians and traffic. The width of the arrow shows the number of cars and pedestrians

Annotated photograph- Annotated Photograph to show how the risk had been mitigated for pedestrians.

Crime Bar chart- Secondary data –Bar chart showing crimes committed on the four streets between January 2018 and march 2018

What evaluative techniques :

Pedestrian flow count and Traffic flow count- the biggest problem with the flow counts was that we were only able to undertake one at each site. The data would be far more accurate if we were able to undertake a number of samples at different times of the day

Annotated photograph-- the advantage of the photographs are that they clearly show the measures put in place to protect pedestrians. We know they are accurate because we took the photos ourselves. The biggest weakness is that we are biased about what pictures we choose to take and use in our fieldwork.

Crime Bar chart- Secondary data – the advantage of this method is that it saves us time. The crimes are clearly located on the map showing clearly what street each crime is associated with. The disadvantage of this method is the police have to decide whether to enter an incident in as a crime and they choose what street to associate with each crime.

The concepts we investigated

Mitigating Risk- *Identifying the nature of risk and human responses to it in one location.*

Measuring Flows- *Analysing flows and patterns of movement.*

How was data analysed:

Pedestrian flow count and Traffic flow count- The flow map showed that the cars the highest number of cars where on Harrogate road (42 & 48). The site with the most pedestrians was the canal with 4.

Annotated Photograph- I was able to identify 4 ways to mitigate risk to pedestrians on Apperley road from cars.

Crime Bar chart- The bar chart clearly showed that Leeds road had the highest crime figures with 16 crimes in 3 months.