

This is the final NEA paper for this specification.

The following suggestions are suitable for use by centres following the WJEC GCSE Geography qualification in Wales. Each focuses on the methodological approach of **transects** and/or the concept of **inequalities**.

Example 1

Context	Inequalities in an urban/rural environment
Environment	Human
Possible enquiry questions <i>(This isn't exhaustive)</i>	<ol style="list-style-type: none"> 1. To what extent does inequality increase with distance from the town centre? 2. Compare the access to services in two communities? 3. Examine how the quality of an environment has an impact on house prices? 4. Explore the relationship between good access to services and house prices? 5. Evaluate the impact of regeneration scheme X on reducing inequalities in Y?
Possible sub questions / hypothesis <i>(Could be used with enquiry question)</i>	<p>Are there a range of services? <i>(1,2,4,5)</i></p> <p>Do local people think they have good access to services? <i>(1,2,4,5)</i></p> <p>Are houses prices higher in community Y? <i>(2,3,4,5)</i></p> <p>Are green spaces accessible to local people? <i>(2,4,5)</i></p> <p>Does the environment affect wellbeing of residents? <i>(1,2,5)</i></p> <p>Are services less accessible to young people in X? <i>(2,4,5)</i></p>
Primary data collection techniques that could be used	<p>Bi-polar survey and/or Lickert Survey along a transect to record student perception of factors that show inequalities: land use/ building vacancy, building appearance, litter, graffiti, access to public transport</p> <p>Produce a survey / questionnaire of residents to analyse how perceptions of inequalities vary between communities/age groups.</p> <p>Field sketch / photographs. Annotate the features of buildings/street so learners consider how the environment may affect the wellbeing of residents.</p> <p>Produce an emotional map of an area. Land use map of a section of the High Street to classify and record the number of shops/services to calculate retail diversity.</p>
Secondary sources	<p>http://www.zoopla.co.uk/market/uk/ Zoopla will display a choropleth or 'heat map' of house prices. It also provides recent trends in house prices for a post code. Consider if there is housing affordable to all members of the community.</p> <p>National Cycle networks - https://www.sustrans.org.uk/ncn/map</p> <p>Traffic mapping - http://www.trafficengland.com/ , https://www.google.co.uk/maps (toggle between the typical and live traffic tabs)</p> <p>Noise mapping - http://extrium.co.uk/noiseviewer.html</p> <p>Data from previous investigations by the centre on the area could be used to compare change in sustainability.</p>

Context	Using transects to assess visitor pressure on honeypots. The honeypot might be natural such as a sand dune or moorland ecosystem, or a heritage site such as Blaenavon or Pontcysyllte Aqueduct.
Environment	Human/physical interaction.
Possible enquiry questions	To what extent do visitors impact honeypot site X?
Possible sub-questions	Do visitor impacts (e.g., litter/trampling/noise) decrease with distance from the car park? What is the extent of the sphere of influence of site X? What evidence of change in land use/buildings as you move away from the honeypot?
Primary data collection techniques that could be used	<p>Oriented away from the main visitor attraction or car park. Use of quadrats along these transects to measure percentage cover of various plants.</p> <p>Short (belt) transects across a footpath to investigate impacts of trampling.</p> <p>Take photographs of significant features of the honeypot site at various distances (e.g., 5m, 50m, 100m, 200m, 500m) to assess impacts.</p> <p>Photograph and locate management features onto a base map to identify ways that visitor pressure is being managed (e.g., car parking, information boards, signage, public toilets).</p> <p>Use a questionnaire of local residents and visitors to identify features of the honeypot site that are threatened. Are the perceptions of the two groups the same or different?</p> <p>Bi-polar survey and/or Lickert Survey to record local residents' perceptions of the impact of visitors on the honeypot site and their perception of how well visitors are being managed.</p>
Secondary sources	<p>Many National Parks and Areas of Outstanding Natural Beauty (AONBs) publish data on visitor numbers and their economic impacts. Many also publish their management strategies.</p> <p>http://www.zoopla.co.uk/market/uk/ Zoopla will display a choropleth or 'heat map' of house prices. It also provides recent trends in house prices for a post code.</p>

Example 3

Context	Microclimate – using transects
Environment	Physical and Human/physical interaction.
Possible enquiry questions	To what extent does the microclimate change as you move away from the CBD?
Possible sub-questions	<p>What impacts do buildings have on wind?</p> <p>What impacts do buildings have on air and ground temperature?</p> <p>What impacts do buildings have on wind?</p> <p>How does particulate matter changes as you move away from the CBD?</p> <p>Is there an urban heat island at X?</p>

Example 4

Context	Rivers – using transects
Environment	Physical
Possible enquiry questions	How and why does river X change at its meanders?
Possible sub-questions	<p>Does velocity of river X changes across a meander?</p> <p>Does the cross-section profile of river X changes across a meander?</p> <p>How does bedload change across a point bar?</p>

Other possible enquiry questions:

Transects

- To what extent does the microclimate change as you move away from X? (School building, a fence, hedge, tree, road, car park)
- How does the environment change as you move away from X? (School building, bins, bus stop, school gates, canteen, car park, road)
- How does cross sectional area/discharge of river X change as you move downstream?
- How does the vegetation change as you move along a sand dune system?
- Explain how the river profile changes as you move downstream?
- Explain how the landforms changes as you move downstream?
- How does the angle of river X change as you move downstream?
- To what extent does inequality vary with distance from the sea front?

Inequalities

- Examine the relationship between inequality and house prices.
- Examine how the quality of the environment affects different members of the local community.
- Examine how the quality of the environment affects different members of the local community.
- To what extent does inequality vary with distance from the sea front/river side?