Knowledge organiser for human fieldwork		Hypothesis: The Quality of Housing increases as distance from the city centre increase.	
What theory underpins the enquiry? What are appropriate sources of primary and secondary evidence including location? What are the potential risks of carrying out the fieldwork and how can they be avoided?	 The Burgess Zone Model and Hoyt Sector model represent how land use develops in HICs. Key Ideas: Cities have grown over a long period of time. The central area is the oldest part and is the most accessible part. The inner city area is where traditional heavy industry developed and associated housing for factory workers. As you move away from the CBD and the inner city housing quality improves. Using this theory the human fieldwork aim is to compare 2 areas in Sheffield, one in the inner city (Robey Street) and one in the rural urban fringe (Totley Hall Croft). These two sites have been chosen because they allow us to collect comparative data from an inner city and rural urban fringe. Potential Risks and how we can mitigate them: Traffic (Accidents) – Use designated crossing points/ensure you are not wearing headphones/look both ways when crossing the road. Risk from/to public – Walk in smaller groups and pairs/do not block pavement/do not enter private property/be kind and courteous to members of the public. 		
Selection of appropriate data. How did you collect your data? What sampling measures did you use? Description and justification of data collection methods.	 Primary Data Collection: Environmental Quality Survey at Totley Hall Croft – to collect data to compare the quality of housing at each site. Each house in the sample was scored between +2 and -2 based on building quality/traffic/open space and general. Field Sketches – to collect data on type of house and housing quality. Each house was drawn to show the visual quality of the house from the roadside. Secondary Data Collection: Environmental Quality Survey at Robey Street using Google Maps – to collect data to compare the quality of housing. Each house in the sample was scored between +2 and -2 based on building quality/traffic/open space and general. Environmental Quality Survey at Robey Street using Google Maps – to collect data to compare the quality of housing. Each house in the sample was scored between +2 and -2 based on building quality/traffic/open space and general. House Prices using Zoopla – to collect data on price variations across the two areas. Internet research was completed to collect the estimated sale value of each house at each site. Sampling Strategy – Using systematic sampling surveying every 5th property at both sites. 		
What presentation methods did you use and why? Description and explanation of presentation methods.	Radial Graph for Environmental Quality Comparison. Using the average scores for building quality/traffic/open space and general for both sites a radial graph was plotted. The radial graph allowed us to the environmental quality survey variables in a way that appears less cluttered and allows us to make comparisons more quickly. Bar Graph for Average House Price Comparison. Using the average house price scores for both sites and plotting this data in a bar graph allows us to compare in a very simple visual form.		
Description, analysis and explanation of your results. Are there links between data sets? What statistical techniques did you use? Can you identify anomalies?	 Environmental Quality Survey: The radial graph showed that the average score for buildings/traffic/open space and general was lower in Robey Street than in Totley Hall Croft. For example total environmental quality scored 27/34 in Totley Hall Croft compared to -1.3/34 in Robey Street. House Price: Bar Graph shows that average house price is more expensive in Totley Hall Croft than Robey Street. In Totley Hall Croft the average house price was £966,000 compared to £106,000 in Robey Street. Links between data: Totley Hall Croft had a higher average environmental quality score due to bigger house size, better environmental quality and access to services leading to a higher average house prices. Anomalies: Anomalies could be seen in data where students had scored too high or low on the EQS. Statistical Tests: Calculating mean average house price and mean EQS 		
What evidence based conclusions did you come to in relation to the original aims of the enquiry?	 Evidence suggest that there is housing inequalities exist in Sheffield with housing quality increasing with distance from the city centre. We can conclude this because: Totley Hall Croft was seen to have a higher EQS score, with the most expensive housing. This was the result of the larger than average detached housing, wide roads with plenty of greenery and trees. Robey Street scored a lower EQS score due to the small houses, small gardens, litter and narrow roads in the area. 		
Identification of problems of data collection method. Identification of limitations of data collected. Suggestions of other data that could have been useful. Extent to which conclusions were reliable.	 Problems with data collection: For Robey Street the fieldwork was conducted digitally using secondary data, this could be outdated as it relies on images from google maps. Although convenient, digital fieldwork using secondary data means that we do not know how accurate the snapshot of each house/local area as it may not be up to date. Environmental Quality Surveys are extremely useful to allow comparison between areas however they are subjective as each person has a different perspective on what is considered 'good' or 'bad'. This would have created anomalies in the results and made them less valid. Sample size was relatively small with 6 houses on each street. What we could have done instead: Increased sample size to include a larger area. Try to standardised EQS scores by creating a benchmark on what would constitute what score before leaving the classroom. 		

Knowledge Organiser for Physical Fieldwork

Hypothesis: The width and depth of the River Porter increases as you go downstream.

Fieldwork		downstream.	
What theory underpins the enquiry? What are appropriate sources of primary and secondary evidence including location? What are the potential risks of carrying out the fieldwork and how can they be avoided?	Bradshaw Model is a <u>the</u> source regions in its upper river should behave. Key Ideas: The river will widen its If the triangle increase	<u>coretical</u> diagram/ model, used to show and describe the characteristics of the river and from its er course with increasing distance downstream towards its mouth. This demonstrates how a <u>natural</u> and deepen as it goes downstream.	
Upstream Downstream	 If the triangle increases in size it means that variable increases the further you go down the stream e.g. the amount o water (discharge) in the stream increases as you move down the stream The model includes gradient, channel bed roughness, load, velocity, depth, width and discharge. Using this theory the physical fieldwork aim is to compare the 3 sites along the upper course of the River Porter. The River Porter was chosen due to its easy accessibility from school, the footpath that follows the river made it accessible, the river discharge sufficient to see change but not too deep/fast to render it dangerous. Changes in the course of the river were noticeable within walkable distance. 		
Occupied channel width Channel depth			
Load quantity	 Potential Risks and how Traffic (Accidents) – crossing the road. 	we can mitigate them: Use designated crossing points/ensure you are not wearing headphones/look both ways when	
Load particle size Channel bed roughness Slope angle (gradient)	 Risk from/to public - and courteous to me Slips trips and falls- river, only do so whe Infection from dirty wounds on feet to av 	- Walk in smaller groups and pairs/do not block pavement/do not enter private property/be kind embers of the public. Fake care when walking along the footpath and look out for tree roots. Take care when entering the ere it is safe, when a member of staff has given the Ok. water – no entering the river unless wearing water shoes/sliders. No entering the water with open void getting an infection.	
Selection of appropriate data. How did you collect your data? What sampling measures did you use? Description and justification of data collection methods.	Primary Data Collections Physical Data Collection Measuring the river widt First with a 30 meter met occupied channel width (denth were taken + reco	: <u>(h (occupied river width)</u> asuring tape, measure a suitable width of the river, from waters edge to waters edge. This is the (where the water comes to) is recorded. This figure was then divided by 10, and 11 measurements of rided at equal intervals, including one measurement taken at 0cm, this is systematic sampling. The	
	depth were taken + recorded at equal intervals, including one measurement taken at ocm- this is systematic sampling. The tape measure was held taught and all measurements were taken from the left hand side , downstream of the measuring tape, as it moved slightly with the flow of the water. All of this was done to reduce bias. The above was done at 3 sites equal distance from each other along the upper course of the River Porter. <u>Human Data collection:</u> Survey of human interventions- at each site, any observations of human interference were noted down. Sampling Strategy Using systematic sampling, recording 11 depth readings in mm/cm at all 3 sites.		
What presentation methods did you use and why? Description and explanation of presentation methods.	Located cross sections Using the data collected river depth and width at method allows us to plot	at each site, the width was used as the 'X' axis, the depth the 'Y', the data was plotted to show the the 3 sites, then the graphs were cut out and stuck onto the map at the correct locations. This : the data in 3 visually clear and simple graphs that were easily comparable	
Description, analysis and explanation of your results. Are there links between data sets? What statistical techniques did you use? Can you identify anomalies? How has human action affected the physical landscape?	River Width and Depth The cross profile maps/ I site 3. However, due to h banks re enforced to pre Links between data: River depth and width in Anomalies/ Human inter the banks of the river at Statistical Tests: Calculat width of river = cross sec	ocated cross sections at the 3 locations showed that the river did widen and deepen from site 1 to uuman interference at site 3 the river was wider at site 2. This is due to the River Porter having the vent erosion at site 3 which is Endcliffe Park. creased the further we were from the source of the river. raction with landscape: Due to human interference the second site was far wider than the third as site three had been reinforced to prevent the river from migrating through the park. ting mean river depth at the 3 sites. Calculating the cross sectional area, (mean depth of river X mean tional area	
What evidence based conclusions did you come to in relation to the original aims of the enquiry?	Evidence suggests that the lead to a change in the en- Site 1 was shallower Site 3 was narrower meandering/migration	ne river does get wider and deeper as it flows from the source. However human interference has xpected results. We can conclude this because: and deeper than sites 2 and 3. than site 2 due to the river banks having been reinforced to prevent the river at site 3 ng through the park.	
Identification of problems of data collection method. Identification of limitations of data collected. Suggestions of other data that could have been useful. Extent to which conclusions were reliable.	 Problems with the data The meter rulers tha Sample size was limi Tape measure not he What we could have dor Use a 30cm ruler insi Sample more sites al Hold the tape measure 	collection: t we used to measure the river depth were too big and didn't give clear readings- down to the MM. ted to 3 sites due to time restrictions. eld taught, causing mixed results. ne instead: tead of a meter stick as it would be clearer to read. long the river at equal distance apart. ure taught- ensure students know the importance of this.	