Fieldwork enquiry question: Does Carding Mill Valley's river follow the Bradshaw Model?		Methods 2: Qualitative Data Collection			Fieldwork Key Terms	
Hypothesis (Based on the Bradshaw Model): Width: Channel width will increase downstream. Depth: Channel depth will increase downstream. Velocity: Average velocity will increase downstream. Reason location is suitable for physical enquiry:		1. Field Sketch	 What? Primary data. Drew a sketch of the river valley at the middle course. Advantages? Easy and quick to complete. Required little training. Disadvantages? Rain on the day made it difficult to draw. Only completed for one continue to proceed to the whole river. 		Primary Data: Data collected first hand. Secondary Data: Data that has been collected by someone else. Qualitative Data: Descriptive data. Quantitative Data: Usually numerical data. Random sampling: Chosen entirely at random. Systematic sampling: Sampling at a fixed interval. Stratified Sampling: Sampling different groups.	
Easy to get to from school and accessible via the motorway.		2. Annotated	What? Secondary data. Random sampling. Annotated photos of the river from each section. Advantages? Easy to use and annotate. Disadvantages?		The Connecting Piece	
 You can go into the river and it is safe to measure. All data can be collected in one day. 					Site 4 illustrated that part of the river had undergone channel straightening to reduce flood risk as there were homes close by. Bi- polar surveys (subjective) & annotated photos used to collect data. Evaluation (What went well? Specific problems? Improvements? Limitations?)	
Methods 1: Primary, Quantitative Collection.		Photographs				
	What? Random sampling. Tape measure extended	Photos may not be representative of when we visited.				
1. Width	between two people from bank to bank. Reading recorded. Advantages? Easy to use and required little equipment. Disadvantages? Only measured the river at one point at each	Paper 3 AQA Physical Fieldwork- Carding Mill Valley		Velocity	We managed to collect velocity measurements at all 3 sites. However, one issue we encountered was the cork kept getting stuck between the bedload. This meant that our velocity data was not reliable. An improvement I would make is to use a flow	
WE BEAM		Risk assessment				
	stage, which may give unrepresentative data.What?Systematic sampling. Used a tape measure &metre stick. Measured the depth every 25cm across the width at each site.Advantages?Easy to use and required little training.Disadvantages?Only did across one section of the river. May be some human error.	Slips, Trips and Falls.	.ow Risk	Students to stay in groups. Students to weak suitable footwear like wellies or walking boots.		metre, which would make out results more reliable.
2. Depth		Wildlife	.ow Risk	To keep a distance from the animals (e.g. sheep).	Width	We managed to easily collect data on the width of the river for each site. However, we only measured the width once for each site, leaving data vulnerable to human error and therefore not fully reliable. An improvement we could make is measuring width at least 3 times at each site and taking an average, which would make it more reliable.
		L Cars	.ow Risk	Students to stay in groups. Teacher will do a headcount. Stick to the footpath wear possible.		
3. Velocity	What? Systematic sampling. Used a stop watch to time how long it took for a cork to travel 10m down the river. Repeated 3 times at each section then took an average. Advantages? Easy to complete & required little training Disadvantages? Cork kept getting stuck which could have made data inaccurate.	River Cross-Section	Presentation Methods			washed the second term
			Shows the relationship between the width and depth of the river in the upper, middle and lower course.		General Limitations.	Some equipment was faulty. We were only there for one day.
		Scatter Graphs	Negative correlation: As one variable increases so does the other. Negative Correlation: As one decreases, the other increases. No correlation: No relationship between the variables.		General Improvement	We could go at a different time of year. We could go to more sites. We could go to another location and compare. We could take other measurements e.g. gradient
		Annotated field sketch	Copied field sketch we drew on site into our write up booklet and annotated with key river features we could see e.g. river channel			
	What? Measured the width of 3 random samples of rocks from each section of the river course with a ruler. Also assessed how angular on a scale of 1-6.	Data Analysis			Conclusions	
		As shown by the Bradshaw Model, I expected the river depth and width to increase			From the data I collected at Carding Mill Valley on depth, the main	

width supported the Bradshaw Model but this was not the same for depth.

conclusion I can draw is that as we went downstream, depth

decreased. This therefore demonstrates that Carding Mill Valley's

river does not follow the Bradshaw Model in relation to depth.

4. Pebble Size

Advantages? Easy to do. No training needed. Disadvantages? Random and about our opinion.

downstream. My river cross-sections illustrated that there was a positive relationship between width and distance downstream, with it being narrow in the upper course and widest in the lower course. However, results were not as expected for depth, with it being deepest in the upper course and shallow in the lower course. Overall, my data for

Fieldwork enquiry question: How sustainable is Birmingham's	Method: Questionnaires	Risk assessment			
Introduction-Birmingham's Big City Plan	What? Primary data (qualitative). Used a stratified random sampling techniques. We randomly asked people who were within the site 7 questions about their background, whether they thought Birmingham	Traffic Low ri and Vehicles	 Only crossed at suitable locations like crossings. Avoided walking in places with high traffic. Stay with the rest of the class and teacher. We took suitable clothing such as a raincoat in case of 		
A 20-year city centre masternian. A vision to encourage and support	Advantages? This was an easy method to use. It required no additional equipment and little training.	Weather	rain. We also Ensured we had plenty of water in case of hot weather.		
Birmingham's continuing transformation into a world class city centre. Covers every aspect of the built environment including: Creating over 50,000 new jobs, creating a well-connected walkable city centre, integrating sustainable development and addressing the issue of climate change	Disadvantages? Answers were subjective and based on the interviewees opinion. There was nobody present at site 4 so we collected no data here for this method. Some interviewees may not have understood what the questions were asking (e.g. what is meant by regeneration).	Low ri Strangers and getting lost	sk Avoid talking to people you don't know. We stayed with our class group and everyone was in their school uniform. Teachers did a head count at each site to ensure we all stayed together.		
Reason location is suitable for physical enquiry (Birmingham):	Method: Old and New Photo Analysis	Evaluation (What went well? Specific problems? Improvements? Limitations?)			
Good example of an urban area (visited 4 sites: Birmingham Markets,	What?				
Easy to get to from school (less than 30 minutes). All sites easily accessible as it is a public space.	Mix of primary (new photos) and secondary (old photos) data (qualitative). We looked and annotated a series of photos from different sites in Birmingham and annotated with any geographical features. This allowed us to see how the site has charged over time		We managed to collect data from a number of people from most sites illustrating the publics opinion on the regeneration of Birmingham. However, there were more		
Methods looking at the Environment and Sustainability	reactives. This allowed us to see how the city has changed over time.	Questionnaires	people present at some sites than others, with no data collected at site 4, limiting the reliability. An improvement I could make would be to carry out online surveys where more people are likely to respond and answer truthfully, which would make results more reliable.		
Environmental Quality Survey What?	Advantages? This allowed us to see different perceptions of an area and how it changed over time.				
Primary data (quantitative). Used a stratified sampling techniques (random samples taken within a specific site). Ranked different aspects of each site with 2+ being very high and -2 being very poor.	Disadvantages? It was difficult to find old photos of the specific sites we visited.		We managed to easily collect data on the environmental quality of an area for each site. However, this data was subjective and was therefore dependent on personal opinion, which made results unreliable. An improvement we could have made was to take the average/most common result in our group, which could have made results more reliable.		
Advantage? This method was very easy to do and we could rate an area based on a series of different aspects. It also did not require any specialised	Paper 3 AQA Human Fieldwork- Birmingham	Environmental Survey			
equipment.	Presentation Methods				
Disadvantages? This method was subjective and therefore based on personal opinion. People would not always agree with each other.	Positive Demonstrates the data for the environmental quality Negative Bar survey. Can easily see what scored well (+value) and Chart what scored poorly (-value). Used to illustrate data for the sustainability index.	General Limitations.	We were only there for one day. We went in the middle of a working day. We only visited 4 sites.		
A Sustainability Index	Pictograms One symbol was equal to a score of 1. Made the scores for each site easy to see.	General	We could go on multiple days. We could collect data at different times of the year. Take an average of all data collected to improve reliability.		
What? Primary data (quantitative). Used a stratified random sampling technique. We rated different aspects of a site on a scale from 1-4,	Annotated Photos Showed the results of the pedestrian count for each of the 4 sites. Allowed us to easily compare all sites.	Improvements			
with 1 being little evidence of sustainability and 4 being high.	Data Analysis	Conclusion			
Advantages? This was an easy method to use, with no equipment needed.	My data from the sustainability index, illustrated by pictograms, showed that the least sustainable site was the Bullring markets (site 1) with a total of 17 and an average of 2.8. The most sustainable site was	The data for site 4 shows that the regeneration of Birmingham via the Big City Plan was sustainable which supports my hypothesis that regeneration can make an area more sustainable. Data that supports this is my sustainability index that			
Disadvantages?	with a total of 17 and an average of 2.8. The most sustainable site was	domonstrated that t	he area has made good use of a brownfield sites providing		

This method was also very subjective, based on our own personal opinion. Different people got different results and did not always agree.

Centenary Square (site 2) with a total of 20, and an average of 3.3. This is because they had regenerated the old site adding features of urban greening, making it more sustainable.

demonstrated that the area has made good use of a brownfield sites, providing urban greening and open green spaces. My conclusions would be more valid if I had included statistics to show if there had been a decrease in factors such as crime.