

Formby Local Geography Topic

Lesson 4

What data are we going to collect and how?

L.O - To plan a route for a fieldwork trip

- I can plan a field trip.
- I can determine which data I want to collect the data.
- I can determine the best way to collect that data

Key Vocabulary:

General Geography Terms

- **Geography** – the study of the Earth's features, people, and places
- **Environment** – the natural world or a specific area's surroundings.
- **Human features** – things made by people (e.g., buildings, roads)
- **Physical features** – natural parts of the landscape (e.g., rivers, hills).

Fieldwork and Investigation Terms

- **Fieldwork** – learning and collecting information outside the classroom.
- **Observation** – watching carefully to gather information.
- **Data collection** – gathering facts and figures for investigation.
- **Survey** – asking people questions to collect opinions or information.
- **Questionnaire** – a set of written questions for surveys.
- **Sketch map** – a simple drawn map showing key features.
- **Tally chart** – a way to record data using marks.
- **Bar chart** – a graph using bars to show amounts.
- **Table** – a way to organise data in rows and columns.

Geographical Skills

- **Location** – where something is found.
- **Direction** – the way something faces or moves (e.g., north).
- **Scale** – the relationship between distance on a map and in real life.
- **Grid reference** – a way to find places on a map using numbers and letters.
- **Key / legend** – explains symbols used on a map.

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What is data

BBC Bitesize

<https://www.bbc.co.uk/bitesize/articles/zgg9pbk>

Work through the sections on bitesize and review all the ways to collect data.

Activity 1:

With your partner/groups, discuss the different types of data collection methods.

In their groups, children are to select a method of collecting data within the local community and present to the class their ideas and reasons why they have chosen a particular method.

[Planning data collection.](#)

Children can create their own data collection form - tally sheet, google form etc.

Class to discuss what they are going to use - how and why and potential problems.

Allow time to change.

Tally charts

How to plan a geography field trip

BBC Bitesize

<https://www.bbc.co.uk/bitesize/topics/z27gf82/articles/z9hj96f#z3qsf82>

Discuss each slide with the children and watch the videos using the links on the slide.

1. Where to start planning fieldwork

When you plan your fieldwork investigation, you need to think about:

- how to choose the location
- physical and human features
- what to investigate
- how to collect information
- how to record data
- how to stay safe

2. What do you need to plan before your visit?

- Before visiting an area to do your fieldwork, you need to plan exactly what you are going to do and how you are going to do it.
- Looking at maps of the area will help you to decide what you could investigate. You could look at human features or physical features – or even both.

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3. Watch Rivers Investigation
4. Tips for planning
5. Watch: What do you need to wear?

Map work:

In groups, discuss where the busiest places in Formby are for footfall.

Then, each group comes up with a different area and explains the reasons why.

Pick 2 or 3 as a class that they think would be best.

On a map, locate and mark on your school and the 2 or 3 locations to collect data. Create a route on the map using paths and crossings. Log using the 6 figure grid references.

Use digi maps measuring tool to help with route planning

<https://digimapforschools.edina.ac.uk/login>

Use street view to follow the route and identify any risks.

Each group completes a risk assessment using the template.

<https://www.hse.gov.uk/simple-health-safety/risk/risk-assessment-template-and-examples.htm>

Final Task

In your groups:

- Decide what data you are going to collect
- How you are going to collect it
- Using the maps, decide where you are going to collect the data
- Using your maps, plan a safe route to your collection point and back to school
- Plan sensible clothing for your investigation.
- Create your own data collection form:
 - Tally sheet
 - google form etc

Using Google Slides, you will present your plans to the other groups towards the end of the lesson.