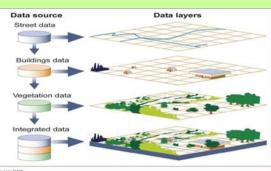
Year 8 Geography: GIS

Key terms

Anomaly	something that deviates from what is standard, normal, or expected
Coordinate	A point on a map
Data Layers	Platforms of information stacked on top of one another on a base of the real world.
GIS	A geographic information system (GIS) is a system designed to capture, store, manipulate, analyse, manage, and present all types of geographical data.
Intelligent data	Data which can be layered on maps
Matrix	A grid of squares
Exclusion zone	An area in which people are not allowed to enter
Vector Map	A map created using lines, areas and coordinates
Unintelligent data	Data which cannot be layered on maps
Trend	The general pattern of a map or data
Raster	A map produced using a matrix and coloured pixels

Describing a Pattern from a G.I.S Who Would Use a GIS? WHERE IS THE MOST DANGEROUS PLACE TO LIVE ? > How would someone planning a town of city use the To describe a pattern KEY 90-80 80-70 70-60 60-50 50-40 40-30 information below? from a map you need to West Yorkshire - 88.6 Cleveland - 82.4 hire - 57/7 > What would happen if they didn't have all of the data remember T.E.A. 24 Leicestershire - 56.9 25 West Mercia - 56 26 North Wales - 52.8 • T: Trend in the model - such as rivers? South Yorkshire -73-8 per 1,000 • E: Example > Why do you think the rock type might be important? Humberside - 72.9 28 Suffolk - 52.2 · A: Anomaly ≻ How could this data help: Northamptonshire - 67.9 29 Dorset-51.9 Avon and Somerset - 66 something that • The police? 11 Lancashire - 66 12 West Midlands - 64.3 2 Willshire - 50.8 doesn't fit the pattern) A taxi driver? 33 Norfelk - 47.5 4 Cheshire - 47.4 A factory owner? 13 Kent-64.3 14 Hampshire 63.4 15 South Wales - 62.9 16 Durham - 62 17 Staffordishire - 60.7 18 Kettinghamshire - 60.4 19 Gwent - 57.9 20 Bedfordishire - 58.5 21 Essax - 58.1 6 Cumbria 454 A water company? shire - 44.8 A house-building developer? stershire - 44.7 The Environmental Agency 41 North Yorkshire - 40. Use TEA to describe the pattern of crime in Hartlepool T: Describe generally what the pattern STATE BALLET shows. Which areas of the country generally are at the most risk of crime. On the map above these areas are generally in the North of England. The south is less dangerous. • E: Give an example with data to illustrate your point, e.g. 'West Yorkshire has the highest crime rate of 88.6 crimes per thousand people & this is in the north'. E.P • A: Find something that doesn't fit the pattern - can you see and low crime rates Sand and Gravel Sandstone in the north of high crime rates in the south? e.g. an anomaly to this pattern is Aquifer Water Table London which has 75.6 crimes per thousand The figure indicates number of recorded crimes in March 2017 people and is in the south of the country. Shale GIS means Geographical Information System and refers to way in > which data can be platted on a map. > A Geographical Information System (GIS) is designed to capture, Platforms of information stacked on top of one another on a analyse and present all types of geographical data. people died. base of the real world. > In the simplest terms GIS is the merging of maps, numbers, data By 2 weeks 600 people were dead. and technology. A base layer of the shape of the land can be overlaid by other disease. information such as rivers, buildings, pipelines, vegetation and > other information. This can then be used by geographers to a map. understand events such as flooding, plan towns and cities and help companies locate where they will make the most profit. Street. **>** Data source **Data layers** Street data E Buildings dat Δ ±€ • Vegetation data



Point

The Geography of Disease: The first ever GIS

- The first ever GIS was created and used in London in 1845.
- Cholera was killing hundreds of people in the city.
- The first death was at 40 Broad Street in London and within 3 days 127
- A doctor called John Snow began investigating what was causing the
- Dr Snow plotted the deaths on a map and the location of water pumps on
- > He noticed that deaths were clustered around a water pump in Broad
- The handle was removed from the pump and the outbreak stopped.

