



Oxford Cambridge and RSA

**Friday 16 June 2023 – Afternoon**

**GCSE (9–1) Geography A  
(Geographical Themes)**

**J383/03** Geographical Skills

Resource Booklet

**Time allowed: 1 hour 30 minutes**



**INSTRUCTIONS**

- Do **not** send this Resource Booklet for marking. Keep it in the centre or recycle it.

**INFORMATION**

- This document has **12** pages.

Fig. 1a

Map of the city of Nottingham

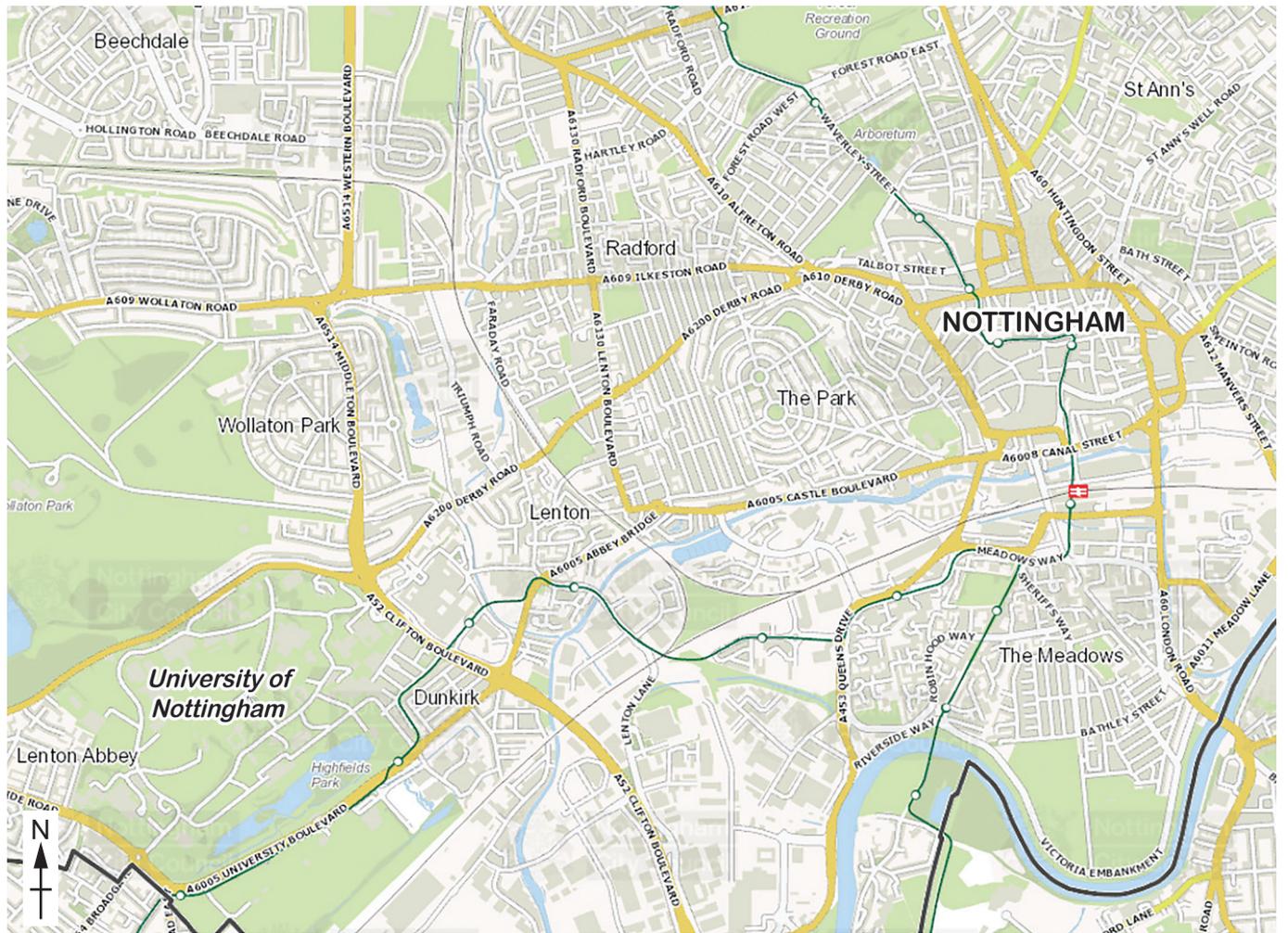


Fig. 1b

Geographical Information System (GIS) map of household income levels in Nottingham

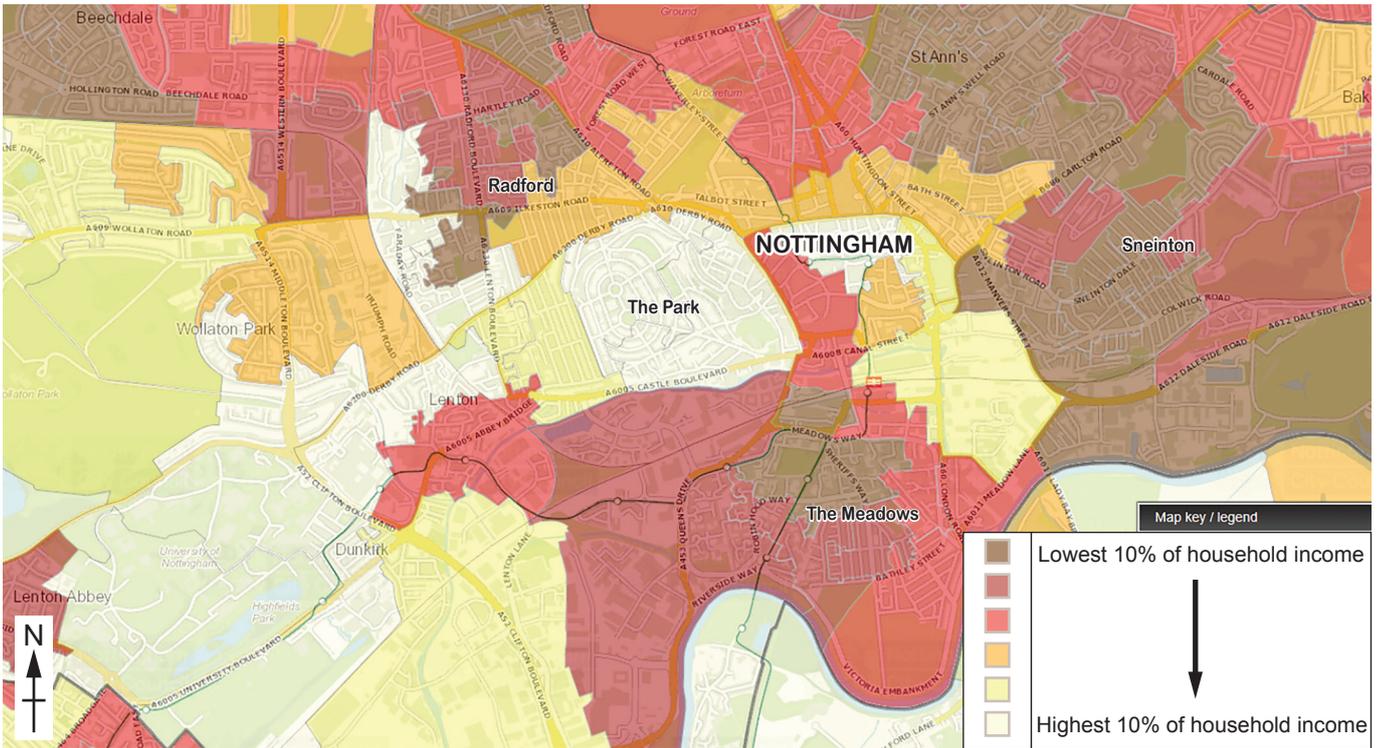


Fig. 2

### Newspaper article about sustainability in Nottingham

## The secrets of Nottingham's sustainability success

Government data indicates a significant fall in Nottingham's carbon emissions due to a reduction in domestic energy use. It shows a 33% reduction in carbon emissions since 2005, beating a target set by Nottingham City Council to reach a 26% reduction by 2020.

Nottingham's carbon emissions reduction is linked to its programme of investments in social housing such as insulation programmes and the installation of solar panels on over 4,000 of council house roof tops.

However, a significant part of this reduction – around 13% – is due to the popularity of public transport, cycling and walking in Nottingham.

The city council developed a wide range of new initiatives to make electric vehicles and sustainable transport more accessible. At the same time, more than 50 gas-powered buses are heading to the streets of Nottingham to add to the 50 strong fleet of electric buses already in the city.



Fig. 3

## UK Electricity Generation 2019

	2019 TWh	Percentage change on a year earlier
<b>Generated from</b>		
Coal	6.9	-59.1%
Nuclear	56.2	-13.6%
Gas	132.5	+0.7%
Renewables	119.3	+8.5%
Total	323.7	-2.8%
<b>Supplied to</b>		
Industry	91.3	-1.8%
Domestic	103.7	-1.3%
Other final consumers	99.3	-2.3%
All	294.3	-1.8%

Fig. 4

## Results of a questionnaire on people's opinions about Fracking in the US.

Do you favour or oppose hydraulic fracturing or 'fracking' as a means of increasing the production of natural gas and oil in the US?

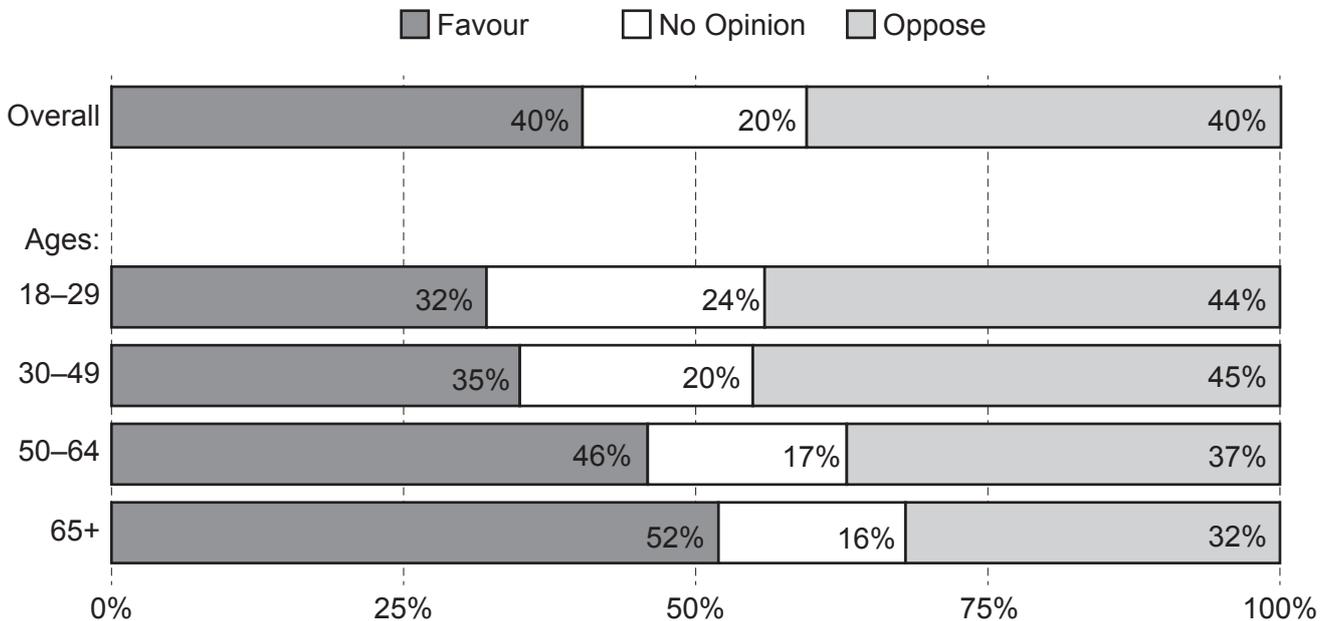


Fig. 5

Hydraulic Fracturing (Fracking) Well in Alaska



**Fig. 6**  
**Global coal exports in 2019**

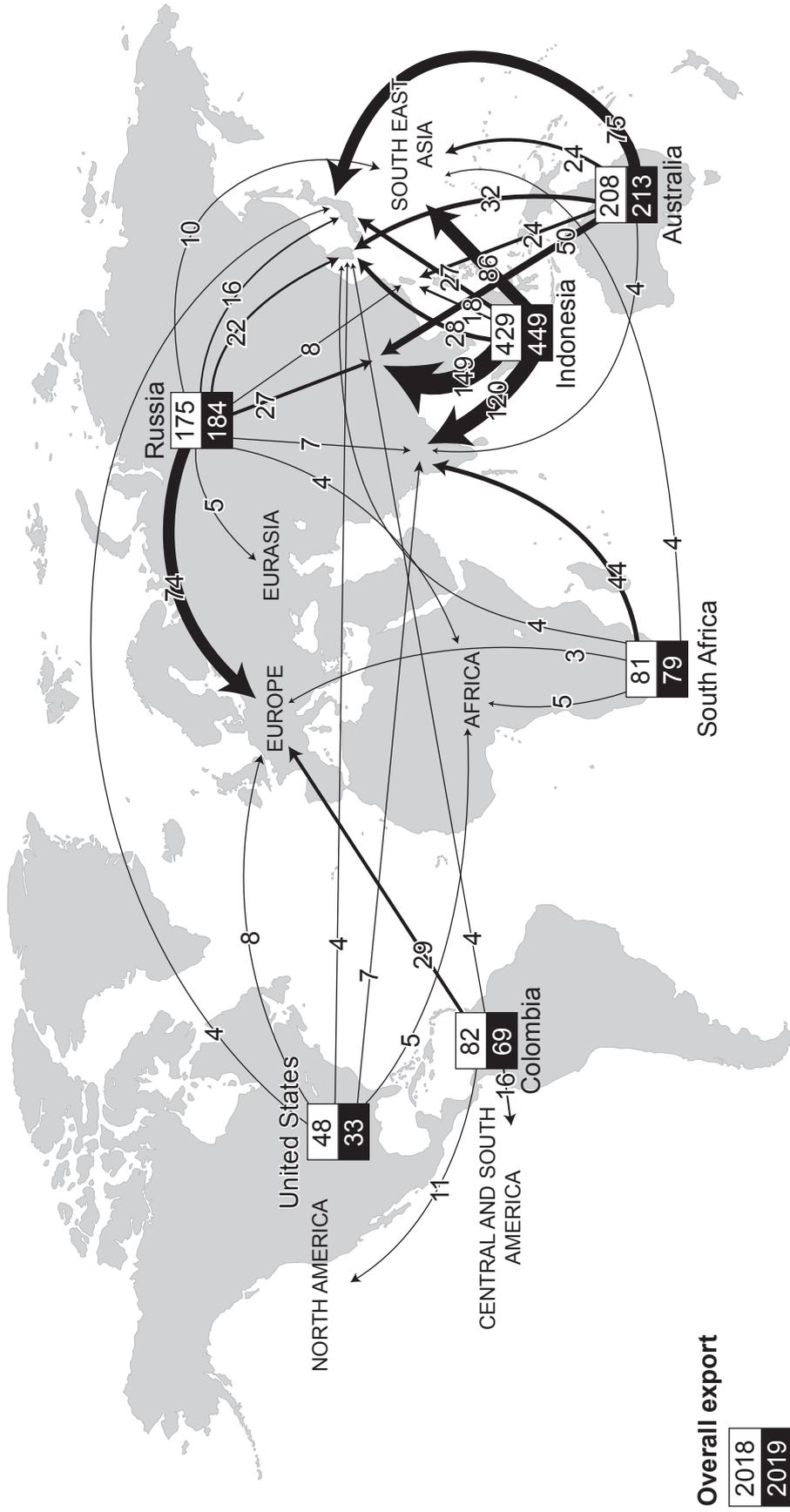


Fig. 7

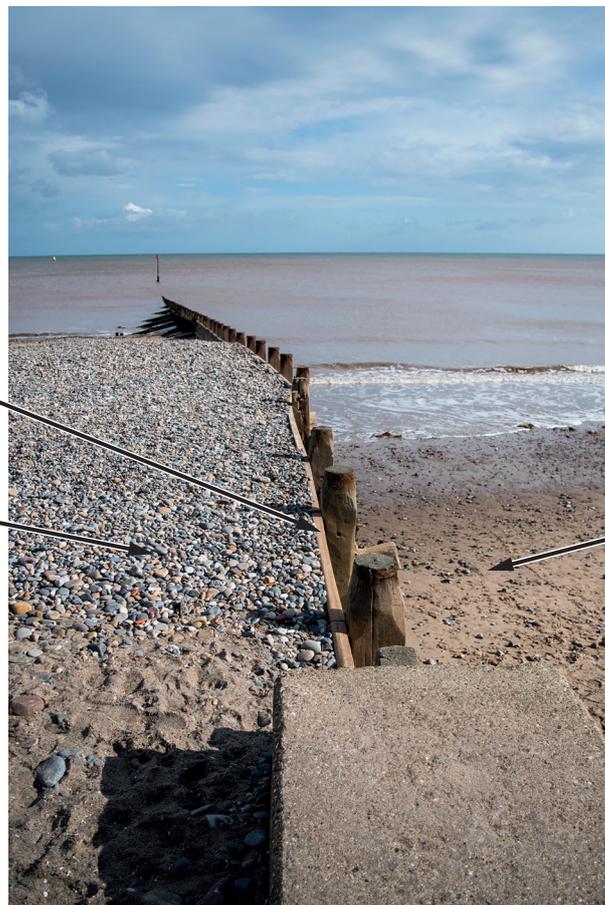
## Coastal Fieldwork data collection

Site	Drop north-side of groyne	Drop south-side of groyne
1	8 cm	65 cm
2	5 cm	70 cm
3	0 cm	80 cm

## Map of site locations



## Site 2



A Groyne has been built as a coastal defence measure to build the beach

North side of groyne

South side of groyne

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