Cambridge Assessment International Education

Cambridge IGCSE™

GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **May/June 2024**

INSERT **1 hour 30 minutes**

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INFORMATION

- This insert contains additional resources referred to in the questions.
- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.

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Fig. 1.1 for Question 1

Categories of land use

land use category	example of land use
residential	terraced house, detached house, bungalow
industrial	manufacturing, mining, assembly factory
commercial (shops)	food, take-away, furniture, market, specialist goods
entertainment	hotel, sports centre, theatre, concert hall, cafe
public building	college, library, place of worship, police station
open space	farmland, park, unused land, sports field
transport	bus station, car park, railway station
services (offices)	financial, business, dentist, doctor, estate agent

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Fig. 1.2 for Question 1

Students' results recorded at the pilot study site

left side of road

distance along road (m)	10	20	30	40	50	60	70	80	90	100
type of land use	hotel		fire and ambulance station		clothes store	take-away	drug store (chemist)	café	semi-detached houses	
land use category	entertainment	entertainment	public building	public building	commercial	commercial	commercial	entertainment	residential	residential

right side of road

distance along road (m)	10	20	30	40	50	60	70	80	90	100
type of land use	park		fruit and vegetable shop	hardware shop	supermarket		accountant	solicitor	terraced houses	
land use category	open space	open space	commercial	commercial	commercial	commercial	services	services	residential	residential

Table 1.1 for Question 1

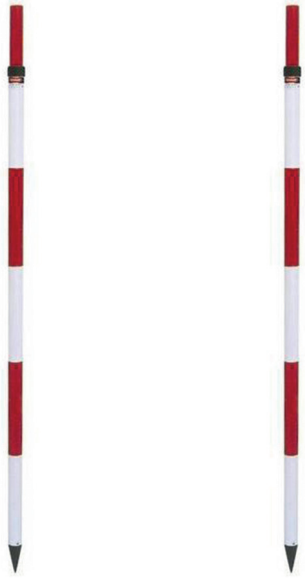
Land use at the six fieldwork sites (%)

	site number					
	1	2	3	4	5	6
	distance from the city centre (m)					
land use	**100**	**400**	**800**	**1200**	**1600**	**2000**
residential	10	20	65	75	55	60
industrial	0	5	10	5	0	15
commercial (shops)	50	30	5	0	25	5
entertainment	25	5	5	0	0	0
public building	5	10	0	**10**	0	0
open space	0	5	5	**5**	15	20
transport	5	10	5	**5**	5	0
services (offices)	5	15	5	0	0	0

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Fig. 2.1 for Question 2

Equipment used to measure river velocity (not to scale)



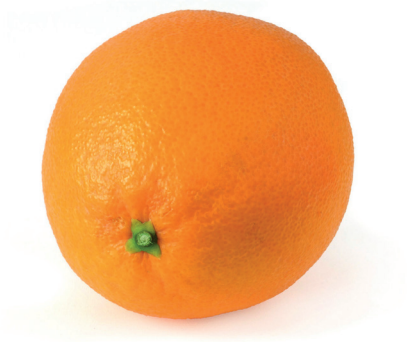
ranging poles



tape measure



stopwatch



orange

Table 2.1 for Question 2

Students' velocity results

	site	average velocity (m / sec)
upstream	1	0.38
↕	2	0.44
↕	3	**0.40**
downstream	4	0.31

Fig. 2.3 for Question 2

Callipers used to measure the length of a pebble



Table 2.2 for Question 2

Length of selected pebbles at site 2

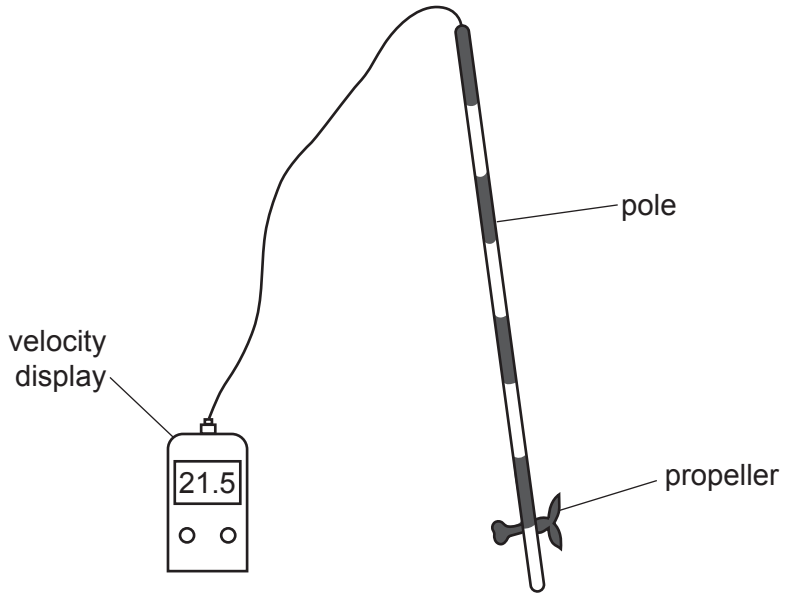
pebble number	length of pebble's long axis (cm)
1	2.2
2	2.6
3	3.0
4	3.7
5	4.2
6	4.9
7	5.7
8	5.9
9	6.8
10	7.0
11	7.2
12	7.5
13	8.3
14	9.0
15	9.2
16	9.6
17	10.5
18	10.8
19	13.9
20	14.2
average	**7.3**

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Fig. 2.5 for Question 2

A flowmeter



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