



**KNOX
GRAMMAR
SCHOOL**

STATE

DA VINCI DECATHLON 2021

**CELEBRATING THE ACADEMIC GIFTS OF STUDENTS
IN YEARS 5 & 6**



CARTOGRAPHY SOLUTIONS

TEAM NUMBER _____

1	2	3	4	Total	Rank
/12	/16	/12	/15	/55	

SECTION 1: WHAT IS THE CHANCE OF THAT OCCURRING? (12 MARKS)

The maps below display a likelihood of a natural disaster or event occurring in a certain place, your task is to match the event with the map provided below.

There are 12 maps below, state your answers in the answer boxes.

To assist a list of events have been given, note: not all the events will match up to maps.

<i>Earthquakes</i>	<i>Conflict hotspots</i>	<i>Congestion</i>
<i>Democratic Instability</i>	<i>Drought</i>	<i>Virus</i>
<i>Bushfires</i>	<i>Terrorism</i>	<i>Avalanches</i>
<i>Climate change</i>	<i>Co2 Saturation</i>	<i>Typhoon</i>
<i>Traffic jams</i>	<i>White Christmas</i>	<i>Sea levels rising</i>

1.

Answer	White Christmas (1 mark)
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2.

Answer	Bushfires (1 mark)
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3.

Answer	Climate change (1 mark)
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4.

Answer	Sea levels rising (1 mark)
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5.

Answer	Traffic jams (1 mark)
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6.

Answer	Congestion (1 mark)
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7.

Answer	Virus (1 mark)
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8.

Answer	Conflict hotspots (1 mark)
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9.

Answer	Co2 Saturation (1 mark)
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10.

Answer	Drought (1 mark)
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11.

Answer	Typhoon (1 mark)
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12.

Answer	Democratic Instability (1 mark)
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SECTION 2: ACCIDENTAL DISCOVERIES (16 MARKS)

Some of the world's most influential scientific discoveries occurred by chance.

Using the clues provided, your task is to match the chance discovery to the location it occurred on the map and state which city this is.

DISCOVERY	CLUE	LETTER	LOCATION
X rays	Pass east through Frankfurt from the English Channel	B	Würzburg, Germany
Sweet'n Low	Home to America's first research university, NE of Washington.	D	Baltimore, Maryland
Penicillin	Boarding the gates of Westminster, within earshot of the Big Ben.	L	London
Television	Located in Australia's second most populated state, this city is more known for a famous rebellion in the 1850s.	E	Ballarat
Microwave	Sharing the name of a great British University located north of the Big Apple.	A	Cambridge, Massachusetts
Play – doh	South of the Great Lakes, this city is in a state that borders Kentucky.	G	Cincinnati, Ohio
Velcro	Hiking in the Alps of a country known for its cheese, chocolate and banking.	F	Swiss Alps, Switzerland
Gunpowder	Looking for the elixir of life, these alchemists were of the Tang dynasty.	H	China

1 mark for each correct letter

1 mark for each correct location, where there are 2 names listed mark can be awarded for either one

SECTION 3: A JOURNEY THROUGH TIME (12 MARKS)

In this section you have been provided with **3 maps** of the **same city**. Each map was made at a different time and depicts unique information about city life.

Your task is to examine the maps and answer the questions below.

1. Which city do the maps portray?

London (1 mark)

2. It is most likely Map A is depicting transport of what form?

- A. Car
- B. Light plane
- C. Bike
- D. Taxi

Why is this evident?

C. Bike (1 mark)

Plane wouldn't be along roads, car and taxi wouldn't go through parks only a bike would (1 mark)

3. In which borough would you find *Buckingham Palace*?

Westminster (1 mark)

4. Along the *Thames*, how far is it in miles from *Buckingham Palace* to *Blackwall*?

9 miles (1 mark) 8-10 miles accepted

5. Before the underground, was it possible to get from *Buckingham Palace* to *Blackwall* by train?

No (1 mark)

6. *Blackwall* is the ___ stop from *Buckingham Palace* on the underground, assuming 'Victoria' is the closest station to the Palace?

13th (1 mark)

7. If you wanted to visit the borough 3 miles SE of *Blackwall* would you need to change trains?

No (1 mark)

8. Following this train line all the way South, at which city will you have to disembark?

Lewisham (1 mark)

9. You now encounter a problem, the modern Underground trains are no longer working, leaving only the old network trains available.

From this city, embark on a train that takes the northern option at every fork in the line, once you cross the *Thames* in which borough are you in now?

Tower Hamlets (2 marks)

10. Walk across to the *Whitechapel* station, the new underground system has now been restored, which line(s) would you use to get back to *Victoria* using the least amount of stops?

Green (1 mark)

SECTION 4: MAJOR WEATHER EVENTS (15 MARKS)

Maps can be used to represent information beyond geographic features of a location, some maps such as a *Weather Map* may show the likelihood of a particular *Weather Event* in a location.

Your task is to *choose a place* somewhere in Australia that has been through a major weather event. In the following table provide the information required:

1. Find a recent weather map of the place your team has chosen, copy and paste it in this space and explain what information the weather map is conveying. (5 marks)

2. Describe the major weather event and why this place experiences such weather conditions. Refer to aspects such as the geography, climate and location. (5 marks)

3. Describe the impact of this major weather event on the place and its people and wildlife. (5 marks)

CRITERIA	LIMITED	SOUND	OUTSTANDING	TOTAL
Perceptive understanding of the weather map provided	0-1	2-3	4-5	
Detailed description of the major weather event and a perceptive understanding of the cause	0-1	2-3	4-5	
Detailed description of the impact of this major weather event on the place and its people and wildlife	0-1	2-3	4-5	
Total				/15

END OF PAPER