

MARKER CODE				



STUDENT ENROLMENT NUMBER (SEN)									

TONGA FORM SIX CERTIFICATE 2024 GEOGRAPHY

QUESTION AND ANSWER BOOKLET

Time allowed: 3 Hours

INSTRUCTIONS:

- Write your **Student Enrolment Number (SEN)** on the top right-hand corner of this page.
- This paper consists of **TWO SECTIONS** and is out of 70 weighted scores.

SECTION	QUESTION	STRANDS	TOTAL SKILL LEVEL
A	ONE	<u>PHYSICAL GEOGRAPHY:</u> LIVING WITH NATURAL HAZARDS A. TROPICAL CYCLONES B. Choose <u>ONLY ONE</u> from: VOLCANIC ERUPTION or EARTHQUAKE	17
			15
B	TWO	<u>CULTURAL GEOGRAPHY:</u> CONSEQUENCES OF POPULATION GROWTH	14
	THREE	THE CHALLENGES OF URBANISATION AND URBAN DEVELOPMENT	12
	FOUR	THE GEOGRAPHIC PERSPECTIVES ON TOURISM	12
TOTAL			70

- Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.
- Use a **BLUE** or **BLACK** ball point pen only for writing. Use a pencil for drawing if required.
- If you need more space for answers, ask the supervisor for extra paper. Write your **Student Enrolment Number (SEN)** on each additional sheet, number the questions clearly and insert them in the appropriate places in this booklet.
- Check that this booklet contain pages **2-23** in the correct order and that none of the page is blank.

YOU MUST HAND IN THIS BOOKLET TO THE SUPERVISOR BEFORE YOU LEAVE THE EXAMINATION ROOM.

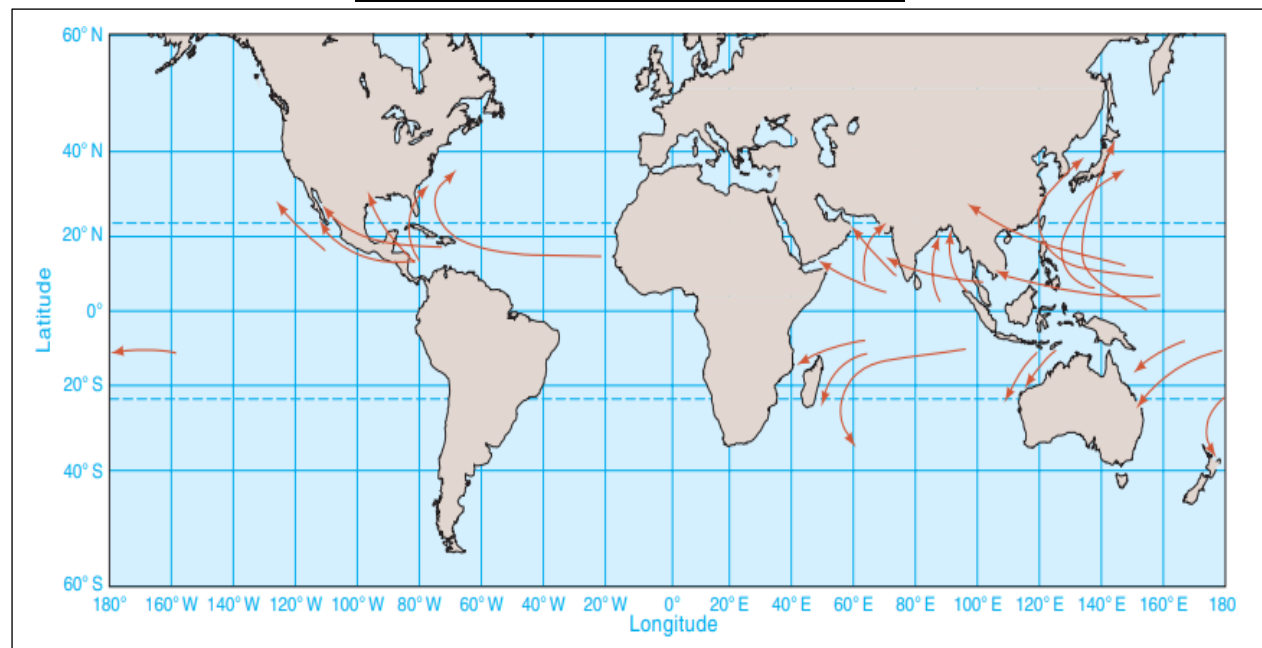
SECTION A: PHYSICAL GEOGRAPHY

QUESTION ONE: Living with Natural Hazards

PART A: TROPICAL CYCLONES

Study **Resource 1.1** and answer questions 1 and 2.

Resource 1.1: Paths of tropical cyclones



Source: *Introducing to Physical Geography* by Alan Strahler pg. 207

1. Describe areas where tropical cyclones tend to develop from.

Skill level 2	
2	
1	
0	
NR	

2. Name **ONE (1)** region shown on the map where tropical cyclones originate from.

Skill level 1	
1	
0	
NR	

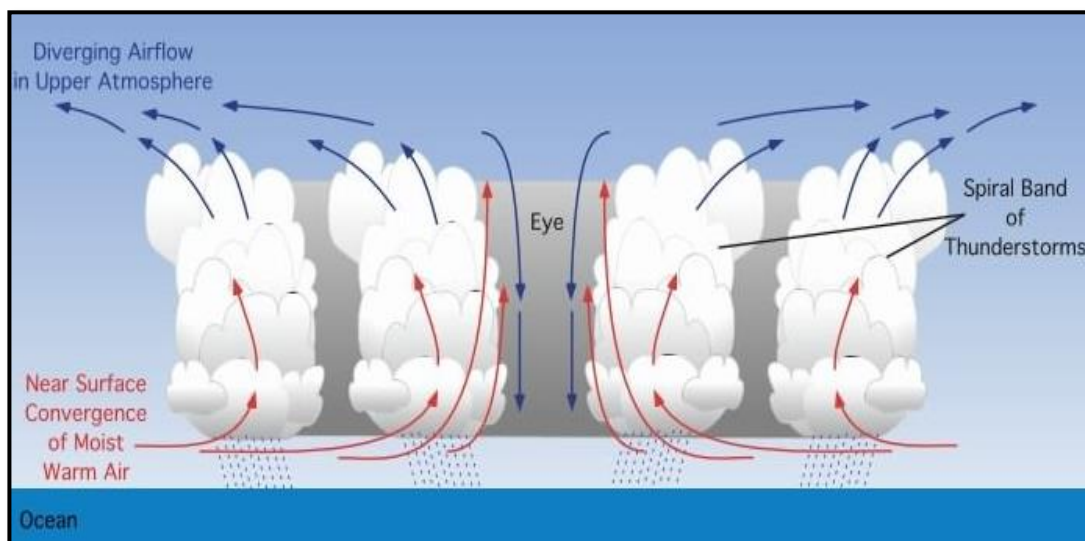
3. Evaluate the significance of the Pacific Ocean to the distribution of tropical cyclones.

This image shows a full page of blank, lined paper. It features approximately 28 evenly spaced horizontal black lines across its entire width, providing a template for handwriting practice or general note-taking. The margins are consistent on all sides.

Skill level 4	
4	
3	
2	
1	
0	
NR	

Use **Resource 1.2** to help you answer questions 4 to 6.

Resource 1.2: Cross-section of tropical cyclone



Source: <https://earth.org/data-visualization/how-is-climate-change-affecting-hurricanes/>

4. Define tropical cyclone.

Skill level 1	
1	
0	
NR	

5. Label the ‘eyewall’ with the letter **W** on **Resource 1.2**.

Analyze the characteristics of the eye wall of a tropical cyclone.

Skill level 1	
1	
0	
NR	

6. Analyze the characteristics of the eye wall of a tropical cyclone.

[illegible]

Skill level 3	
3	
2	
1	
0	
NR	

-
- This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

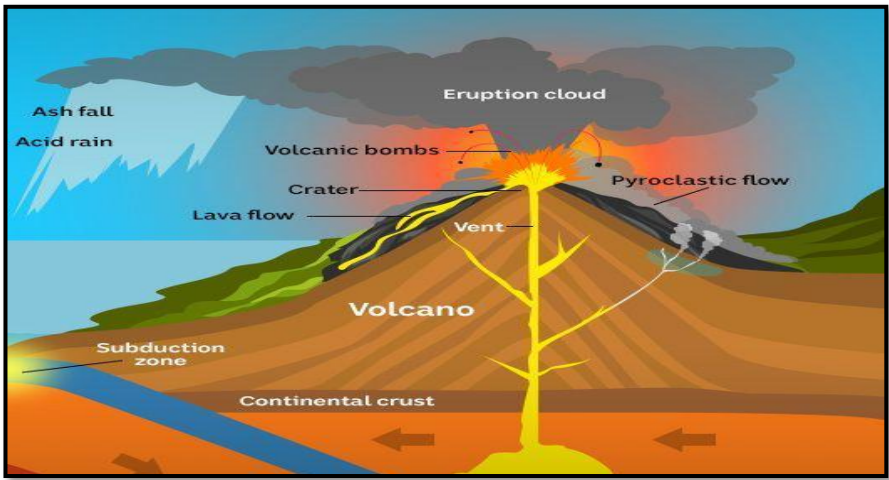
-
-
-
-
-

CHOOSE EITHER PART B.i VOLCANIC ERUPTION OR PART B.ii EARTHQUAKE

PART B.i: VOLCANIC ERUPTION

Use Resource 1.3 to answer questions 1 to 4.

Resource1.3: Cross-section of a volcano



Source: www.kidzworld.com

1. Label the ‘magma chamber’ with the letter **M** on Resource 1.3.

2. Describe the features of the volcano.

3. With reference to Resource 1.3, relate the features of the volcano to how its shape is being formed.

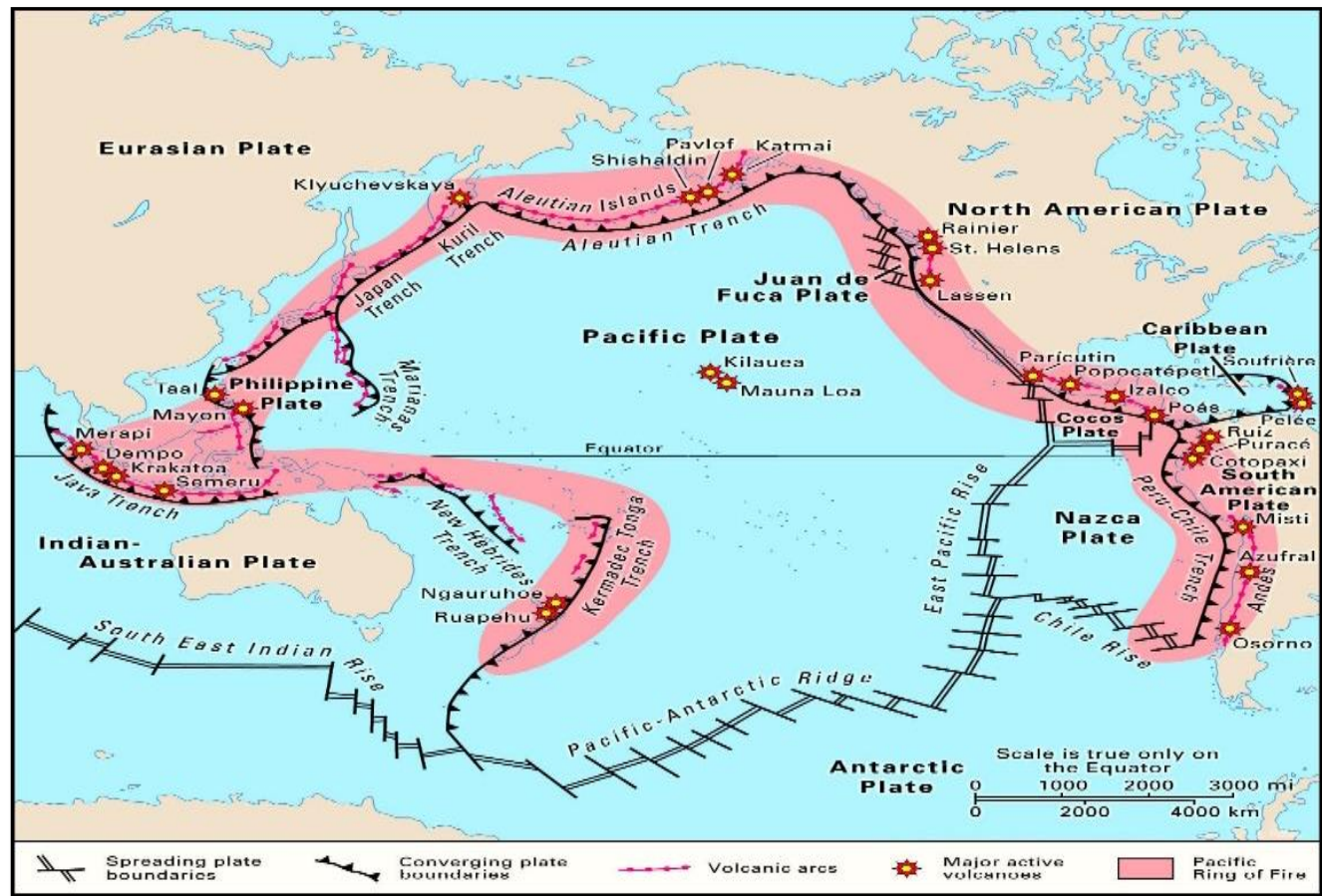
Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

Skill level 3	
3	
2	
1	
0	
NR	

Study **Resource 1.4** and answer questions 5 to 7.

Resource 1.4: Pacific Ring of Fire



Source: www.britannica.com

5. There are different types of volcanoes along the Pacific Ring of Fire. Define Pacific Ring of Fire.

Skill level 1	
1	
0	
NR	

6. Most of the volcanoes along the Pacific Ring of Fire are active ones. Define active volcanoes.

Skill level 1	
1	
0	
NR	

Study **Resource1.5** and answer questions 1 to 3.

The diagram illustrates the components of an earthquake. A 3D block represents the earth's crust, which is divided by a vertical fault line. Below the surface, a tectonic plate is shown. A hypocentre (focus) is marked as a red dot within the crust, with concentric orange and yellow circles representing seismic waves radiating outwards. The epicentre is the point on the surface directly above the hypocentre. A tree and a house are shown on the surface, with red concentric circles indicating the seismic waves reaching them. Labels with arrows point to the following features:

- earth's crust
- epicentre
- hypocentre (focus)
- fault line
- tectonic plate

1. Label the ‘seismic waves’ with the letter **M** on **Resource 1.5**.

2. Describe the epicentre of an earthquake.

3. With reference to named examples from a case study you have studied, relate tectonic plates to how an earthquake is formed.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Skill level 1	
1	
0	
NR	

Skill level 2	
2	
1	
0	
NR	

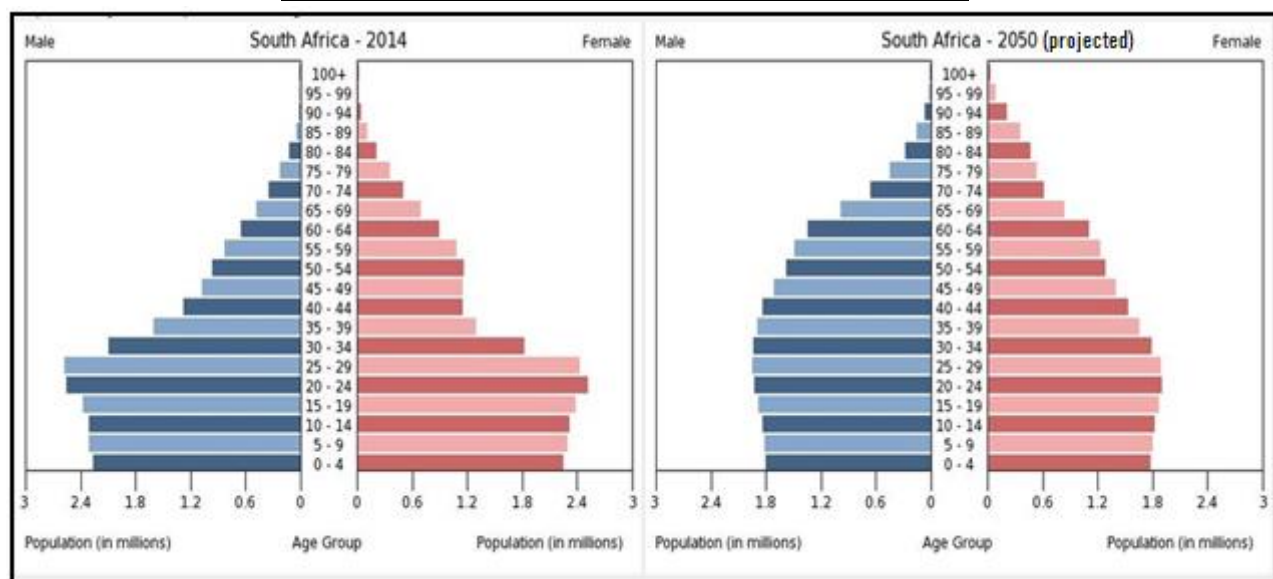
Skill level 3	
3	
2	
1	
0	
NR	

SECTION B: CULTURAL GEOGRAPHY

QUESTION TWO: Consequences of Population Growth

Study **Resource 2.1** and answer questions 1 and 2.

Resource 2.1: Population Pyramid of South Africa



Source: www.populationpyramid.net

1. Define Population Pyramid.

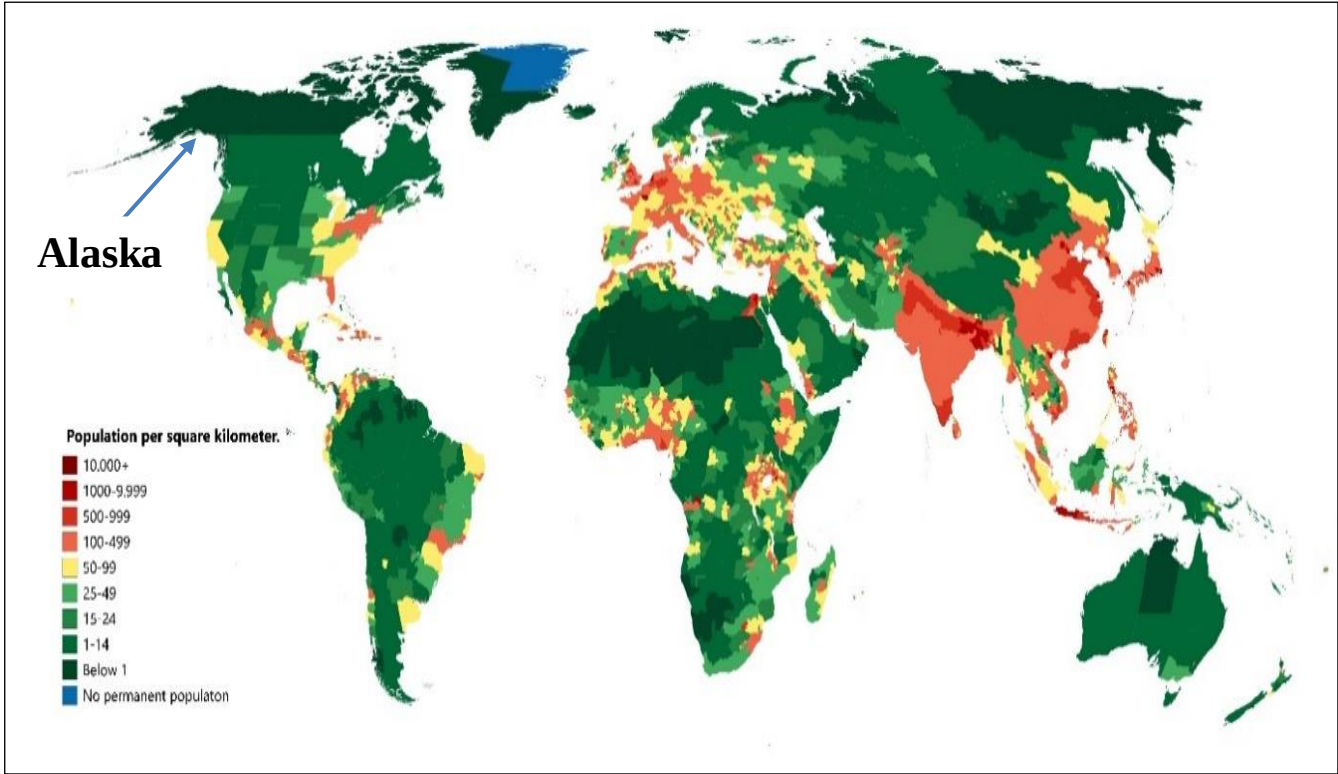
Skill level 1	
1	
0	
NR	

2. Interpret the population pyramids of South Africa in 2014 and 2050.

Skill level 3	
3	
2	
1	
0	
NR	

Study **Resource 2.2** and answer questions 3 to 5.

Resource 2.2: World’s population density



Source: www.vividmaps.com/population-density.

3. Define population density.

Skill level 1	
1	
0	
NR	

4. Describe **ONE (1)** natural factor that contributed to the population density of Alaska.

Skill level 2	
2	
1	
0	
NR	

6. With reference to named examples from a case study, explain the planned responses to population change and their implications.

Skill level 3	
3	
2	
1	
0	
NR	

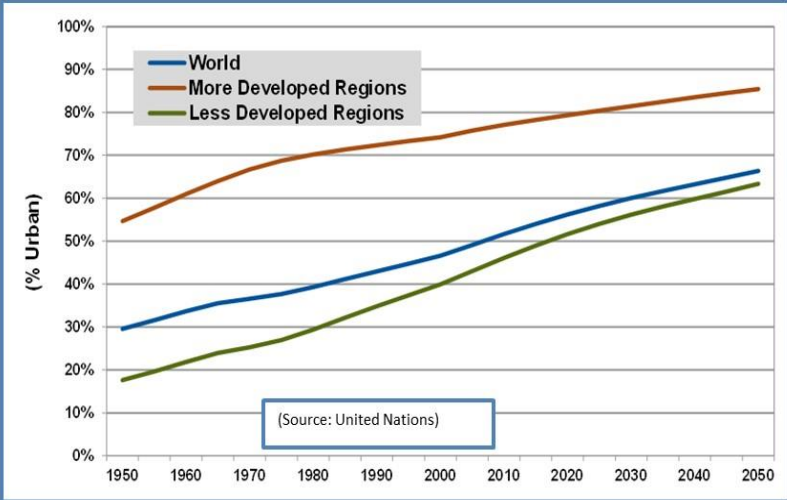
QUESTION THREE: The Challenges of Urbanisation And Urban Development

Study **Resource 3.1** and answer questions 1 to 3.

Resource 3.1: World’s urban growth







(Source: United Nations)

Year	World (%)	More Developed Regions (%)	Less Developed Regions (%)
1950	30	55	18
1960	35	65	22
1970	38	70	25
1980	40	73	28
1990	43	75	32
2000	46	77	38
2010	50	79	45
2020	54	81	52
2030	58	83	58
2040	62	85	62
2050	65	86	65

The world is undergoing the largest wave of urban growth in history.

More than half of the world’s population now lives in towns and cities, and by 2030 this number will swell to about 5 billion.

Much of this urbanization will unfold in Africa and Asia, bringing huge social, economic and environmental transformations.

Percentage of Population in Urban Areas: 1950-2050

1. Define urbanization.

Skill level 1	
1	
0	
NR	

2. State **ONE (1)** environmental transformation of urbanisation shown by **Resource 3.1**.

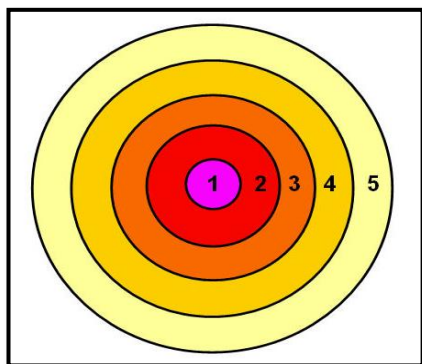
Skill level 1	
1	
0	
NR	

3. Describe the trend of urban population as shown in the graph.

Skill level 2	
2	
1	
0	
NR	

Study **Resource 3.2** and answer questions 4 to 7.

Resource 3.2: Urban Model



Key:

The Five Zones of the Model

1. *Central Business District (CBD)*
2. *Zone of Transition*
3. *Zone of the Working Class*
4. *Residential Zone*
5. *Commuter Zone*

4. Identify the Urban model shown in **Resource 3.2**.

5. Analyze the model shown in **Resource 3.2**.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Skill level 1	
1	
0	
NR	

Skill level 3	
3	
2	
1	
0	
NR	

Study **Resource 4.1** and answer questions 1 and 2.

From 26-30 August 2024, the 53rd Pacific Islands Forum Leaders Meeting was hosted by Tonga and chaired by the Prime Minister of Tonga, Hon Hu’akavameiliku Siaosi Sovaleni.

Source: <https://forumsec.org/events/53rd-pacific-islands-forum-leaders-meeting-tonga>

-
-
-

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Study **Resource 4.2** and answer questions 3 and 4.

Resource 4.2: Types of tourism



Source: https://www.freepik.com/free-vector/flat-design-ecotourism-poster-template_23176281.htm

3. Define eco-tourism.

Skill level 1	
1	
0	
NR	

4. Describe a positive effect of eco-tourism on the environment.

Skill level 2	
2	
1	
0	
NR	

Study **Resource 4.3** to answer questions 5 and 6.

Resource 4.3: Pacific islands principal destination countries for international tourists 2023



5. Name the top destination country for international tourists.

Skill level 1	
1	
0	
NR	

6. Identify the distribution pattern of tourism in a world scale.

Skill level 1	
1	
0	
NR	

7. With reference to named examples from case studies, explain how effective a strategy is, in managing the negative impacts of tourism.

Skill level 3	
3	
2	
1	
0	
NR	