Assessment Schedule – 2018

Geography: Apply geography concepts and skills to demonstrate understanding of a given environment (91243)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Applying geography concepts and skills to demonstrate understanding of a given environment involves:	Applying geography concepts and skills with precision to demonstrate in-depth understanding of a given environment involves:	Applying geography concepts and skills with precision to demonstrate comprehensive understanding of a given environment involves:
using skills and geographic conventions in the presentation and / or interpretation of information	using skills and geographic conventions to a high level of accuracy in the presentation and / or interpretation of information	
showing understanding of geography concepts.	showing detailed understanding of geography concepts.	showing a thorough understanding of geography concepts, using geographic terminology and showing insight.

Cut Scores

Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence	
0 – 2	3 – 4	5 – 6	7 – 8	

Evidence

Task	Achievement	Achievement with Merit	Achievement with Excellence	
(a)	Skill: Photo interpretation and précis mapping			
	Completes the précis map using conventions to show most features, enabling the map to be readily interpreted.	Completes the précis map using conventions to show most features to a high level of accuracy.		
	The features need to be in the approximate position but not necessarily within the accuracy limits shown below.	The features must be within the accuracy limits shown below.		
	Allow omission of some conventions.	Allow some minor inaccuracy, error, or omission.		
	Possible evidence for part (a):	1		

Features of the map include:

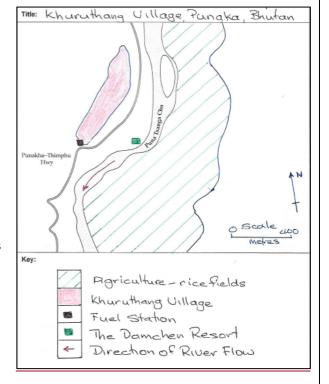
- the area of agriculture
- the built-up village area
- the fuel station
- the resort
- the direction of the river.

Conventions include:

- title
- key
- indication of north direction
- · indication of scale
- features (fuel station, resort) shown as locations
- spatial features (agriculture, village) shown as areas with clear boundaries and distinct colours / shading.

Accuracy includes:

- area of agriculture: approx. 30–50% of the space to the east of the river
- village: all or mostly to north of the road
- fuel station: located on (the north side of the) bend in the road
- resort: on the broad bend of the river
- river flow: from north to south
- scale of 400m: consistent with distance between fuel station and resort (1cm = 80– 100m)
- north direction: offset to LHS of vertical
- title: appropriate.



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Question	Achievement	Achievem	ent with Merit	Achievement with Excellence	
(b) (i)	Skill: Diagram construction				
	Completes the diagram using conventions to show key features of the dry winter wind process, enabling the diagram to be readily interpreted.	conventions was accuracy to ex	actions in the dry		
	Allow omission of some of the conventions shown in Figure 6.	Allow some merror, or omis.	ninor inaccuracy, sion.		
	Possible evidence for part (b) (i):				
	Features of the process include:		Devo	vinter winds – October to April	
	 the rising of warm air located over Bay of Bengal creating a low-pressure zone cooler winds from the Tibet Desert being drawn toward the low-pressure zone 		4 Cold Dry 3. Cold Dry Color Walnut Color		
	cold or dry wind / no rainfall over Bhutan. Conventions include:		Bay of Bengal	Blutan Himalaya Tibet Desert Mountains NORTH	

Cold

1. In winter, the sun is over the Bay of Bengal

2. The sun heats the ocean, causing air above it to be heated and rise creating a low-pressive

3. The cold and heavy air over the Tibel Desert blows towards the low-pressure zone.

4. As the wind passes over Bhutan'it is cold and dry

The sun

zone.

• the use of a key or annotated notes to show

colour and / or style

• the use of key to show symbols.

• a distinction between warm and cooler winds by

Question	Achievement	Achievement with Merit	Achievement with Excellence		
(b) (ii)	Understanding of a geographic concept: Processes				
	Shows an understanding of the concept of <u>processes</u> (either as a sequence of actions or as temporal variation), with regard to the monsoon wind process in either summer OR winter by:	Shows a detailed understanding of the concept of processes (either as a sequence of actions or as temporal variation), with regard to the monsoon wind process in either summer AND winter by:	Shows a thorough understanding of the concept of processes (either as a sequence of actions or as temporal variation), with regard to the monsoon wind process in both summer AND winter by:		
	describing the sequence of actions or the seasonal temporal variation	explaining in detail EITHER the sequence of actions (i.e. the links between steps) OR the reason for the seasonal temporal variation	explaining comprehensively BOTH the sequence of actions (i.e. clear links between steps) AND the reason for the seasonal temporal variation (wet and dry seasons)		
	identifying the effect of the process on Bhutan's climate	identifying the effect of the process on Bhutan's climate	identifying the effect of the process on Bhutan's climate		
	making some general references to the environment (e.g. seasons; months of the year; north / south; places – the Bay of Bengal, Tibet, Bhutan, the Himalaya Mountains).	making specific references to the environment.	making specific references to the environment throughout		
			 using geographic terminology, e.g.: low pressure zone moist wind / cold dry wind 		
	Note: Evidence of understanding can come from part (i) as well as part (ii).		showing insight, e.g: clearly linking seasonal climate to position / movement of the sun.		

Question	Achievement	Achievement with Merit	Achievement with Excellence	
(c)	Skill: Graph interpretation			
	Uses skills and conventions in the interpretation of information by identifying a relationship between climate and hydroelectricity production OR tourist arrivals, providing mostly general supporting evidence, e.g. ONE of:	Uses skills and conventions in the interpretation of information by identifying a relationship between climate and hydroelectricity production AND tourist arrivals, providing a high level of accuracy with specific supporting evidence, e.g.:		
	in periods of the highest rainfall during both July and September, electricity production is at its highest	in periods of the highest rainfall during both July and September, electricity production is at its highest, at 18% of annual production		
	during the dry periods of November to March, production is at its lowest	during the dry periods of November to March, production is at its lowest, at only 3% of annual production		
	during May to August, arrivals are low due to the heavy rainfall	during May to August, arrivals are low due to the heavy monthly rainfall of over 300 mm due to the summer monsoon		
	tourist arrivals are high in the months of March and April, and September and November, when temperatures and rainfall are mild.	tourist arrivals are high (8,000 –12,000) in the months of March and April, and September and November, when temperatures are mild (10–16°C) and rainfall is not heavy (10–50 mm).		
	Allow some inaccuracies, errors, or omissions.	Allow for some inaccuracy, error, or omission.		

Question	Achievement Achievement with Merit Achie		Achievement with Excellence		
(d)	Bhutan and sustainability (relevant geographic concepts are Environments, Interaction, and Sustainability)				
	Shows an understanding of the specified concepts as they relate to Bhutan's sustainability, by:	Shows a detailed understanding of the specified concepts as they relate to Bhutan's sustainability, by:	Shows a thorough understanding of the specified concepts as they relate to Bhutan's sustainability, by:		
	making reference to at least ONE concept (e.g. by describing features of the natural and cultural environments, with specific reference to "environment")	making explicit reference to TWO concepts (e.g. by establishing an interaction between the natural and cultural environments)	explicitly explaining the interrelationship between all THREE concepts, clearly establishing sustainability with specific detail to unpack the concept(s), (e.g. "Sustainability involves adopting ways of thinking and behaving")		
	discussion that is mainly descriptive	discussion with explanation	discussion that includes explanation throughout		
	 general references to the environment (e.g. "high rainfall") 	specific references to the environment (e.g. "high summer rainfall")	specific reference to the environment throughout		
			using geographic terminology, e.g. "monsoon", "hydro- electricity", "greenhouse gases"		
			 showing insight, e.g.: draws a conclusion, such as "the future is sustainable because power generation can be increased to meet a future increase in car numbers" 		
			explains why Bhutan has an advantage over other countries because of its small population or abundant natural resources		
	Note: References to concept(s) is general (i.e. refers to "environment" / "sustainability"), some explanation, but generally descriptive, with some general supporting information.	Note: References to concepts are explicit and discusses with reference to at least two concepts with some explanation, and a range of specific reference(s).	Note: References to concepts are explicit and unpacked with reference to the detail of the concept (e.g. "Sustainability involves adopting ways of thinking and behaving"), full or detailed explanation, and a wide range of specific reference(s) throughout, with terminology and insight.		
	See overleaf for examples of possible evidence for part (d).				

(d) cont'd

<u>Interactions</u> between the natural and cultural <u>environments</u> (i.e. the effects of the former environment on the latter):

- Mountains
 - caused Bhutan to be isolated and therefore delayed development, allowing for better planning
 - limit agriculture to the river valleys
 - affect the settlements and road pattern (map evidence)
 - provide a tourist attraction
- Climate
 - affects seasonal patterns of hydroelectricity production and tourist arrivals
 - provides abundant water for hydroelectricity production (including revenue from power exports, domestic lighting) and irrigation
- Forests
 - absorb greenhouse gases
 - native forests and wildlife influences tourism as a tourist attraction.

<u>Interactions</u> between the cultural and natural <u>environments</u> (i.e. the effects of the former environment on the latter):

- Bhutan's Constitution (Buddhist philosophy) limits economic growth and so protects the natural environment (e.g. happiness is prioritised over GNP and development of resources)
- forests protected by constitution with min 60%; 50% currently in national parks. This protects wildlife
- use of electric cars to reduce harmful emissions in order to protect air quality and reduce greenhouse gases
- rivers dammed to provide hydroelectric production, affecting river flows.

How interactions between the cultural / natural environments are sustainable:

- Forests are protected by the Constitution to ensure that they are harvested sustainably.
- Hydroelectricity is a dependable renewable resource, so its use is sustainable. As an energy source for cars it additionally avoids them producing harmful emissions; it also provides a sustainable source of energy for homes, and by its export to neighbouring countries generates national income.
- Not all hydroelectricity potential is currently used, so future increases in demand can be met sustainably.
- Limiting tourist arrivals ("high value, low impact") protects the natural and cultural environment.

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N1	N2	А3	A4	M5	M6	E7	E8
Includes sufficient information to show some skill in presentation or interpretation, but lacks key geographic conventions and accuracy, in ONE of:	Includes sufficient information to show some skill in presentation or interpretation, but lacks key geographic conventions and accuracy, in ONE of:	Shows skill in presentation or interpretation, and uses some key geographic conventions, but lacks accuracy, in TWO of:	Shows skill in presentation or interpretation, and use most key geographic conventions, but lacks accuracy, in TWO of:	Shows skills with accuracy in presentation or interpretation, but may lack use of a key geographic convention, in TWO of:	Shows skills with a high level of accuracy in presentation or interpretation, and use of all key geographic conventions, in TWO of:	Shows skills with a high level of accuracy in presentation or interpretation, and use of all key geographic conventions, in TWO of:	Shows skills with a high level of accuracy in presentation or interpretation, and use of all key geographic conventions, in TWO of:
the précis map	the précis map	the précis map	the précis map	the précis map	the précis map	the précis map	 the précis map
the diagram	the diagram	the diagram	the diagram	the diagram	the diagram	the diagram	the diagram
graph interpretation	graph interpretation	graph interpretation	 graph interpretation 	graph interpretation	 graph interpretation 	 graph interpretation 	 graph interpretation
OR	AND	AND	AND	AND	AND	AND	AND
Attempts to apply a geographic concept.	Attempts to apply a geographic concept.	Shows some understanding, with some supporting information, of ONE of the concepts of:	Shows understanding, with some supporting information, of ONE of the concepts of:	Explains, in some detail, using a range of specific supporting evidence, TWO of the concepts of:	Explains, in detail, using a wide range of specific supporting evidence, TWO of the concepts of:	Fully explains, showing some insight, and integrating a range of specific supporting evidence and geographic terminology, the concepts of Sustainability and TWO others of:	Fully explains, showing insight, and integrating a wide range of specific supporting evidence and geographic terminology consistently throughout, the concepts of Sustainability and TWO others of:
		• Processes	 Processes 	• Processes	Processes	 Processes 	 Processes
		Environments	 Environments 	Environments	Environments	 Environments 	 Environments
		Interaction	 Interaction 	Interaction	Interaction	Interaction.	Interaction.
		Sustainability.	Sustainability.	Sustainability.	Sustainability.		

N0 = No response; no relevant evidence.