

Group 1 | 9(a) Water Security

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): Drought and saltwater intrusion	Hazard(s): Extreme flooding and heavy rainfall	Hazard(s): Erratic rainfall
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>
	<i>Unprotected surface water sources, water treatment plants, and distribution networks in flood prone areas</i>	
Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>
Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>
		<i>Depletion of water reservoirs and failure of rainfed collection systems, leaving communities without adequate water for drinking or sanitation</i>
Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>

Widespread loss of safe drinking water access and collapse of water dependent livelihoods

Group 2 | 9(b) Food & Agriculture

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): Erratic rainfall and drought	Hazard(s): Flooding and soil erosion	Hazard(s): Prolonged heat stress
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>
	<i>Smallholder farms on low lying floodplains; post harvest storage and transport infrastructure in flood prone areas</i>	
Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>
Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>

		<i>Significant reduction in crop yields and livestock productivity; increased livestock mortality</i>
Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>
<i>Widespread food insecurity and loss of agricultural livelihoods</i>		

Group 3 | 9(c) Health

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): Heat wave and flooding	Hazard(s): Tropical cyclone	Hazard(s): Drought and water scarcity
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i> <i>Health facilities, emergency services, and densely populated informal settlements in cyclone prone coastal areas</i>	Exposure <i>Who or what is in harm's way?</i>
Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>

Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>
		<i>Increase in waterborne diseases; malnutrition; mental health deterioration in affected communities</i>
Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>
<i>Overburdened health systems and increased mortality among vulnerable populations</i>		

Group 4 | 9(d) Ecosystems & Biodiversity

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): Wildfire and coral bleaching	Hazard(s): Sea level rise and coastal erosion	Hazard(s): Prolonged drought
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>
	<i>Coastal mangrove forests, wetlands, and low lying terrestrial ecosystems and the species they support</i>	

<p>Vulnerability Driver(s) <i>What makes it worse?</i></p>	<p>Vulnerability Driver(s) <i>What makes it worse?</i></p>	<p>Vulnerability Driver(s) <i>What makes it worse?</i></p>
<p>Impact <i>What happens as a direct result?</i></p>	<p>Impact <i>What happens as a direct result?</i></p>	<p>Impact <i>What happens as a direct result?</i></p>
		<p><i>Mass species migration, habitat fragmentation, and local extinction of climate sensitive species</i></p>
<p>Systemic Consequence <i>What is the wider effect on society?</i></p>	<p>Systemic Consequence <i>What is the wider effect on society?</i></p>	<p>Systemic Consequence <i>What is the wider effect on society?</i></p>
<p><i>Irreversible loss of ecosystem services and collapse of nature dependent livelihoods</i></p>		

Group 5 | 9(e) Infrastructure & Settlements

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): Sea level rise and landslide	Hazard(s): Extreme flooding and storm surge	Hazard(s): Tropical cyclone
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>
	<i>Roads, bridges, drainage systems, and residential areas in low lying urban and peri urban zones</i>	
Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>
Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>
		<i>Widespread destruction of housing, power grids, and communication networks; disruption of supply chains</i>
Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>

Permanent displacement of communities and collapse of critical infrastructure

Theme / GGA Target: _____

Complete all three pathways below. Hazards can cascade; where two hazards combine, trace them together as the starting point of one pathway.

Pathway 1	Pathway 2	Pathway 3
Hazard(s): _____ _____	Hazard(s): _____ _____	Hazard(s): _____ _____
Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>	Exposure <i>Who or what is in harm's way?</i>
Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>	Vulnerability Driver(s) <i>What makes it worse?</i>
Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>	Impact <i>What happens as a direct result?</i>

Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>	Systemic Consequence <i>What is the wider effect on society?</i>