Question(s) AQA GCSE Geography Revision	Answer(s)
	Hurricanes – Atlantic and E Pacific Ocean
What are the three different names for tropical storms and	
where are their different locations?	Cyclones – Indian and South Pacific Oceans
	Typhoons – North Pacific Ocean.
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Question(s) AQA GCSE Geography Revision	Answer(s)
	Form over areas of deen water (at least 70m)
	Form over water vater (above 27°C)
Give four facts about the conditions required for tropical	Most form $\Gamma_1 \Gamma^0 N/C$ of the equator because at the equator
storms to form.	there is not enough an inform the notation of the conth
1	there is not enough spin from the rotation of the earth
	Low wind shear – i.e. wind stays relatively constant with height
	(important so it doesn't tare apart the storm clouds)
1	្ត្រី Tropical regions – intense heat makes the air unstable.
Weather Hazards	
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Question(s) AQA GCSE Geography Revision	Answer(s)
	Air heated above surface of water oceans rises under low pres-
	sure
Give the basic sequence of the formation of tropical storms.	Rising air draw up more air and moisture – causes strong winds
	Coriolis effect causes the air to spin around a central calm eye
1	The rising air cools, condenses and forms huge cumulonimbus clouds
	ຍ generating torrential rain
	$\frac{\partial}{\partial z}$ Cold air sinks in the eye – lack of cloud and a calm dry area
	The tropical storm travels across the ocean in the prevailing wind
Weather Hazards	Once it reaches the land the storm isn't fuelled by moisture / heat from
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AOA GCSE Geography Revision	sst Auguranda
	Arswer(s)
True or false?	High wind shear is required for hurricanes to form (FALSE
High wind shear is required for hurricanes to form	– low wind shear)
Surface water temperatures of less than 27°C are required for	Surface water temperatures of less than 27°C are required for
tropical storms to form	tropical storms to form (FALSE – need 27°C +)
The eve of the storm has heavy winds and rain	The eye of the storm has heavy winds and rain $(F \Delta I SF - calm)$
Denth of water required for typhoons to form is at losst 70m	and little rain
i i i i i i i i i i i i i i i i i i i	Depth of water required for typhoons to form is at least 70m
Weather Hazards www.geobytes.org.uk	
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Augention (A) AQA GCSE Geography Revision	st Answer(s)
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Which way do hurricanes spin in:	Northern Hemisphere – storms swirl anti-clockwise
Northern Hemisphere	Southern Hemisphere – storms swirl clockwise.
Southern Hemisphere	
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AQA GCSE Geography Revision	Distribution - not expected to change
Distribution of tropical storms The frequency of tropical storms The intensity of tropical storms Weather Hazards www.geobytes.org.uk	Frequency – likely to stay the same or decrease (but ex- pected to be a greater number of more severe storms (4 and 5) Intensity – expected to become more intense and more category 4/5 storms.
Question(s) AQA GCSE Geography Revision Tropical Storms are formed? How does the scale work?	The scale is known as the Saffir-Simpson scale – it is based on wind speed – the higher the category scale – the higher the intensity of the storm.
Weather Hazards www.geobytes.org.uk	Fold al
Question(s) AQA GCSE Geography Revision	Answer(s)
Where and when did Typhoon Haiyan strike?	7 th November 2013 Philippines in SE Asia.
Weather Hazards www.geobytes.org.u	Fold along here
AQA GCSE Geography Revision	Answer(s)
What category was Typhoon Haiyan on the Saffir Simpson scale and what wind speeds were reached.	Category 5 and wind speeds of between 170- 190mph were reached.
Weather Hazards www.geobytes.org.u	k Pold c
Question(s) AQA GCSE Geography Revision	• .6,300 deaths
List 5 primary effects of Typhoon Haiyan.	 400mm of rain – led to widespread flooding 40,000 homes destroyed 14 million affected in total – 4 million homeless 90% of Tacloban city was destroyed by winds and a 5m storm surge Widespread damage to infrastructure
Weather Hazards www.geobytes.org.u	k jõ

AQA GCSE Geography Revision	st Answer(s)
List 4 secondary effects of Typhoon Haiyan	 Surface and groundwater chemicals were contaminated by chemicals / sewage leading to disease Oil barge ran aground at Estancia – 800,000 litres of oil leaked – destroying habitats. Agricultural land destroyed – food shortages and rice prices rose by 11.9% Looting became an issue – survivors fighting for food supplier
Weather Hazaras www.geobytes.org.uk	
AQA GCSE Geography Revision Question(s) AQA GCSE Geography Revision Give 4 immediate responses to Typhoon Haiyan Weather Hazards www.geobytes.org.uk	 Answer(s) Warning on TV given and 800,000 evacuated 33 countries/ organisations pledged help – e.g. UK sent shelter Kits / France sent field hospitals \$1.5 billion of foreign aid was pledged Distribution of aid made difficult by damaged infrastructure Curfew set up after 2 days due to looting problems
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Question(s) AQA GCSE Geography Revision Question(s) Give A long term responses to Typhoon Haiyan Give 4 long term responses to Typhoon Haiyan Weather Hazards	 Answer(s) More cyclone shelters built – new storm surge warning system put in place 'cash for work' programmes – people paid to help clear debris / rebuild the city Government announced a 4 year £6.2 billion programme to rebuild houses, infrastructure etc. Oxfam supported the replacement of fishing boats New legislation to prevent re-building in high-risk areas.
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Question(s) AQA GCSE Geography Revision	MONITORING PREDICTION PLANNING PREPARATION
Weather Hazards www.geobytes.org.uk	Fold a
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Question(s) <u>AQA GCSE Geography Revision</u> Academy True	SATELLITES – distinctive cloud patterns associated with tropical storms can be measured by satellite and rainclouds reaching 16km in altitude are likely to indicate intensification to tropical storm within 25 hours.
Weather Hazards www.geobytes.org.uk	AIRCRAFT – specially equipped aircraft fly through tropical storms collecting air pressure, rainfall and wind sensors – used in forecasting models.

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Question(s) AQA GCSE Geography Revision	Answer(s)
Why does extreme weather occur in the UK?	Linked to a warming world More energy in the atmosphere could lead to more intense storms Atmospheric circulation may be affected – bringing
Weather Hazards www.geobytes.org.uk	mally cooler areas.
Question(s) AQA GCSE Geography Revision	Answer(s)
What are the predicted changes in the following as the UK's weather changes? Precipitation - River Flow - Evaporation	Precipitation – likely that it will become even more seasonal but annual total will stay the same River Flow – predicted that UK rivers will flood more in future winters Evaporation – predicted to increase due to higher air tempera- tures causing more drought.
Weather Hazards www.geobytes.org.uk	Fold
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AQA GCSE Geography Revision	Answer(s) Drought Heavy Rain
Weather Hazards www.geobytes.org.uk	Heatwaves Gales Extreme Cold Weather Thunderstorms
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Question(s) AQA GCSE Geography Revision	Answer(s)
Name, locate and date an example of a recent extreme weather event and associated hazard in the UK	Extreme flooding in Somerset due to heavy rain in the win- ter of 2013-2014.
Weather Hazards www.geobytes.org.uk	Fold along here
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Question(s) AQA GCSE Geography Revision	Answer(s) Autumn/winter 2013-2014 – series of low pres- sure systems from the Atlantic brought weeks of prolonged rainfall December's rain was twice the monthly average and it was the wettest Jan on record – 350mm of rain fell in Jan/Feb (100mm above average)
Weather Hazards www.geobytes.org.uk	Clay / Peat lands quickly saturated and the Rivers Parrett and Tone Flooded The rivers hadn't been dredged for 20 years and made the flooding worse.

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Question(s)	AQA GCSE Geography Revision	Astrea Academy Trust	Answer(s)
Describe the Weather Haz	location of the Somerset Levels 2013-2014 floods ards www	s affected by the	Somerset levels are an area of low-lying land boarded by the Bristol Channel and the Quan- tock Hills to the West and the Mendip Hills to the North.
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Question(s) Give 3 soc	AQA GCSE Geography Revision	nerset floods.	Answer(s) Over 600 houses flooded Many people left without power Residents evacuated to temporary accommodation for several months Villages like Moorland were cut off affecting people's daily lives (e.g. school and shopping)
Weather Hazo	ards www	v.geobytes.org.uk	Fold a
Question(s)	AQA GCSE Geography Revision	omerset Floods	Answer(s) Bristol to Taunton railway line was closed (as part of track washed away) Estimated that costs of flooding were £10 million Over 24,000 ha. of agricultural land flooded for 3-4 weeks and livestock from 16 farms were evacuated.
	ww	w.geobytes.org.uk	19
Question(s) How many cr	AQA GCSE Geography Revision ells are there in the Global Atmo ion model and what are they cal	Astrea Academy Trust	Answer(s)
Weather Haz	ards www	w.geobytes.org.uk	Fold along here
Question(s)	AQA GCSE Geography Revision	Astrea Academy Trust	Answer(s)
What is me	eant by a high pressure system a affect the weather?	nd how will this	High pressure means the air is sinking and gives rise to more stable conditions. As the air is not rising, conden- sation is not occurring, clouds are not forming and therefore there is little rain.
Weather Haze	ards www	w.geobytes.org.uk	

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Question(s) AQA GCSE Geography Revision	Answer(s)
With reference to air pressure and the atmospheric circu- lation model explain the typical equatorial climate.	At the equator conditions are hot and wet. The high temperatures are due to the fact that the sun is directly overhead. The high levels of rainfall are because the air is rising at this point at the start of the Hadley cell creating an area of low pressure. Here as the air rising, condensation occurs
Weather Hazards www.geobytes.org.uk	
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Question(s) <u>AQA GCSE Geography Revision</u> With reference to air pressure and the atmospheric circulation model explain the typical desert climate	Answer(s) Desert climates are hot and dry. Most deserts are at 30°N or S of the equator. At this point air is sinking – high pressure. Air isn't rising and therefore there are few clouds forming and little rain. The lack of clouds also means that during the day it is very hot as there is nothing to stop the sun's rays and it is very cold at night.
Weather Hazards www.geobytes.org.uk	Fold
AQA GCSE Geography Revision Academy Trust	Answer(s) The UK is about 55°N and is close to the boundary of the cold polar air moving down from the N and the warm subtropical air moving up from the south. Here this is rising air, cooling, condensing and forming cloud and rain. Surface winds from the SW in summer bring warm and wet conditions. If the air comes from the north, as it often does in the winter it can bring snow and very cold weather.
Question(s) <u>AQA GCSE Geography Revision</u> <u>Astree Academy Trust</u>	Answer(s) Floodwater contaminated with sewage and oth- er pollutants Stagnant water that had collected for months had to be pumped back into reservoirs Huge amount of debris to clear.
Weather Hazards www.geobytes.org.uk	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
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AQA GCSE Geography Revision	 Answer(s) 20 year Flood Action Plan – launched by Somerset Council and Environment Agency – includes strategies to plan / protect against it happening again in the future Flood defences – including new culverts, water control structure, more pumping stations River Parrett and Tone were dredged – to remove soil, clay and vegeta- tion from the channel to increase capacity and reduce risks of flood- ing Roads raised to prevent disruption to transport in future events.
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