Tender Heart High School, Class-V (Geography) Chapter-16 gurpreet Kaur Good Mouning Students, This lesson is for class-V for the subject of <u>leography</u> in which <u>Chapter</u>-16 natural pisasters will be continued with the explanation of the topics- "Floods and Cyclones" If all the students are neady then let us start our today's topic. Floods: - Hoods occur when there is a rise in the level of water in a river due to very heavy rains, melting of glaciers, stange Flood system, bursting of dams etc. generally floods are caused due to one or more unfavouriable factors together. For example, during heavy rains, a river may receive water at a faster rate than it can discharge it into the sea. Thus, a river may not be able to hold this extra water and overflows its banks, causing a flood in the surrounding areas. Most of the floods in India are caused by overflowing of eivers during the Monsoon season. Spira

Class-V (geography) Chapter-16_ Destruction Caused by Hoods :-Hoods can be one of the most destructure natural disasters in the neorld. They may cause the folloning forms of destruction. 1) There is a huge loss to tife and linestock caused by drowning. 2) structures like houses, bridges, roads etc. get damaged by gushing water. 3) hack of puoper water facilities, contamina-tion of water leads to outbreak of epidermis, diarrhoea, viral infection, malaria and many other infectious diseases 4) Flooding also affects agricultural lands as large areas of it get inundated leading to huge crop loss. 5) Floods affect the quality of soil. The land after the floods may become infertile due to erosion of top layer or it may turn saline if sea water floods the area. Spira

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Measures for safety

Before flooding

- The nearest safe place should be accessible and made known to all residents in the area.
- People in villages must identify elevated areas to save them from flood water.
- A first aid kit with important medications should always be kept ready in case of an emergency.
- An emergency kit with strong ropes, a radio, a torch (with additional batteries), food items, fresh water, essential items such as salt and



sugar, waterproof bags, umbrellas, candles, and matchboxes should always be kept ready.

- Trees act as natural barriers. Efforts should be made to plant as many trees as possible on river embankments to create a natural barrier against surging water.
- In flood-prone areas, a proper drainage system should be built and maintained so that excess water can be drained off.

During flooding

- People living in the flood-prone areas should be made aware of the importance of following flood alerts transmitted on television and radio.
- Electrical appliances should not be used during a flood.
- An attempt should always be made to move to the higher grounds or to the terraces of buildings. People should wait for officials to evacuate and not try to wade through the flood water.

Class-V (Geography) Ch-16 A storm or wind that notates about the centre and moves forward at high speed, ten causing rains is called a cyclone. A cyclone at sea brings a huge ume of mater from the sea to coastal areas. The rushing sea troys everything that comes in clones are a great ltreat mina in roan erent names in the reorld. In North America, known as 'hurricanes' hel they are known as 'typhoons'. In India the cyclones are mode in nature and are accompanied by strong destructive minds and heavy downpour

Fresh Fact

Table 13.1: Different Cyclones and its speed

Speed of Wind in kilometre per

62 kilometre per hour

89-118 kilometre per hour

119-221 kilometre per hour

Above 221 kilometre per hour

Name of the Cyclone

Tropical Cyclone

Severe Cyclonic Storm(SCS)

Very Severe Cyclonic Storm (VSCS)

Super Cyclonic storm (SCS)

Spina

(lass-V (yeography) Ch-16 Measures for Safeti in which we can be prepared to cope nith a cyclone are as follones:-Cyclone () Daily TV weather reports should be telecast so that fishermen do not enter the high seas. 2) Safe shelters should be built by the government so that the affected population could be shifted there in time. 3) Proper arrangements for providing all the necessities of life, like food and water should be made before and after the cyclonic catastrophe. 4) People should not be allowed to go near the seashore for any adventurous activities. Effects - It causes flooding and destruction of settlements, farms and crops The cyclone of Andhra Puadesh in 1977 and cyclone Nargis of 2008 were the morst cyclones that affected India. Cyclone Vardah caused a large damage to Chennai in December 2016. Spiral

	(lass-V (Geography) Ch-16		
Destruction caused by Cyclones			
Cyclones characterised by strong winds, torrential rains and flooding cause a huge loss _ to life and property.			
•	High winds cause major damage to infrastructure and housing, especially the weak - constructions.		
•	Cyclones are followed by heavy rains and floods in flat coastal areas because of the high tidal waves inundating the land over long distances.		
•	Contamination of water supplies may lead to viral outbreaks, diarrhoea and malaria.		
•	 Ground and pipe water supplies get contaminated by flood waters. 		
•	High winds and rains ruin the standing crop and food stock lying in low level areas.		
	Salt from the sea gets deposited on the agricultural land and increases its salinity making it unsuitable for agriculture.		
. •	Cyclones, especially the destruction caused by strong winds disrupt the smooth		
	functioning of rail and road services.		
About 8 percent of the total land area in India is prone to cyclones. The states which are			
most affected by cyclones are West Bengal, Odisha, Andhra Pradesh and Tamil Nadu on the east coast and Gujarat, Maharashtra, Goa, Karnataka and Kerala on the west coast.			
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