



# Impact of Hurricanes

Curriculum Planning and Development Division

# Outcomes

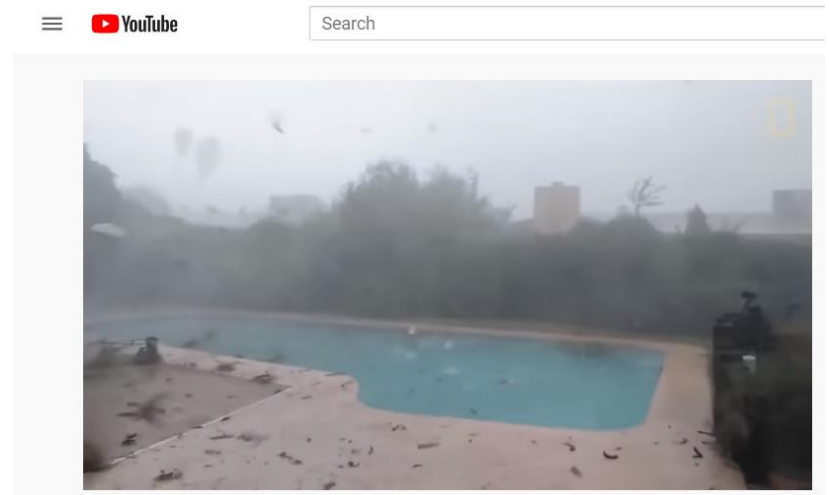
In this session you should be able to:

- name a hurricane which has significantly impacted the Caribbean.
- examine the impact of hurricanes on life and property
- empathize with persons affected by hurricanes.

# Formation of a Hurricane

View the following video which serves as a recap of the previous session and an introduction for this lesson.

- <https://www.youtube.com/watch?v=LIXVikDkyTg>



# Activity 1

1. Go on the internet and find any two articles on hurricanes and read.
2. Give the name and the website address for each article. An example is given below.

National Geographic: <https://www.nationalgeographic.org/>

3. Based on the video clip that you would have watched and your additional research, answer the following questions.
  - What weather conditions are experienced in the following sections of hurricane?
    - ❖ Eye
    - ❖ Eye wall
    - ❖ Rain bands
  - State three aspects of a hurricane that can threaten life and property?

# Hurricane Hazards

Natural hazards are natural events such as earthquakes, volcanic eruptions, hurricanes, etc. that have the potential to cause damage to people and their property.

The major threats or events associated with hurricanes in the Caribbean are:

- Strong winds
- Storm surge
- Heavy rainfall and inland flooding
- Landslides

# Impacts

The passage of a hurricane may negatively affect the individual, family, community, country and regions, for example, the Caribbean. Impacts may be classified under many headings, for example.

- Social Impacts
- Economic Impacts
- Environmental Impacts

## Social

- Injury to yourself
- Health and well-being (emotions)
- Loss of life
- Damage to homes

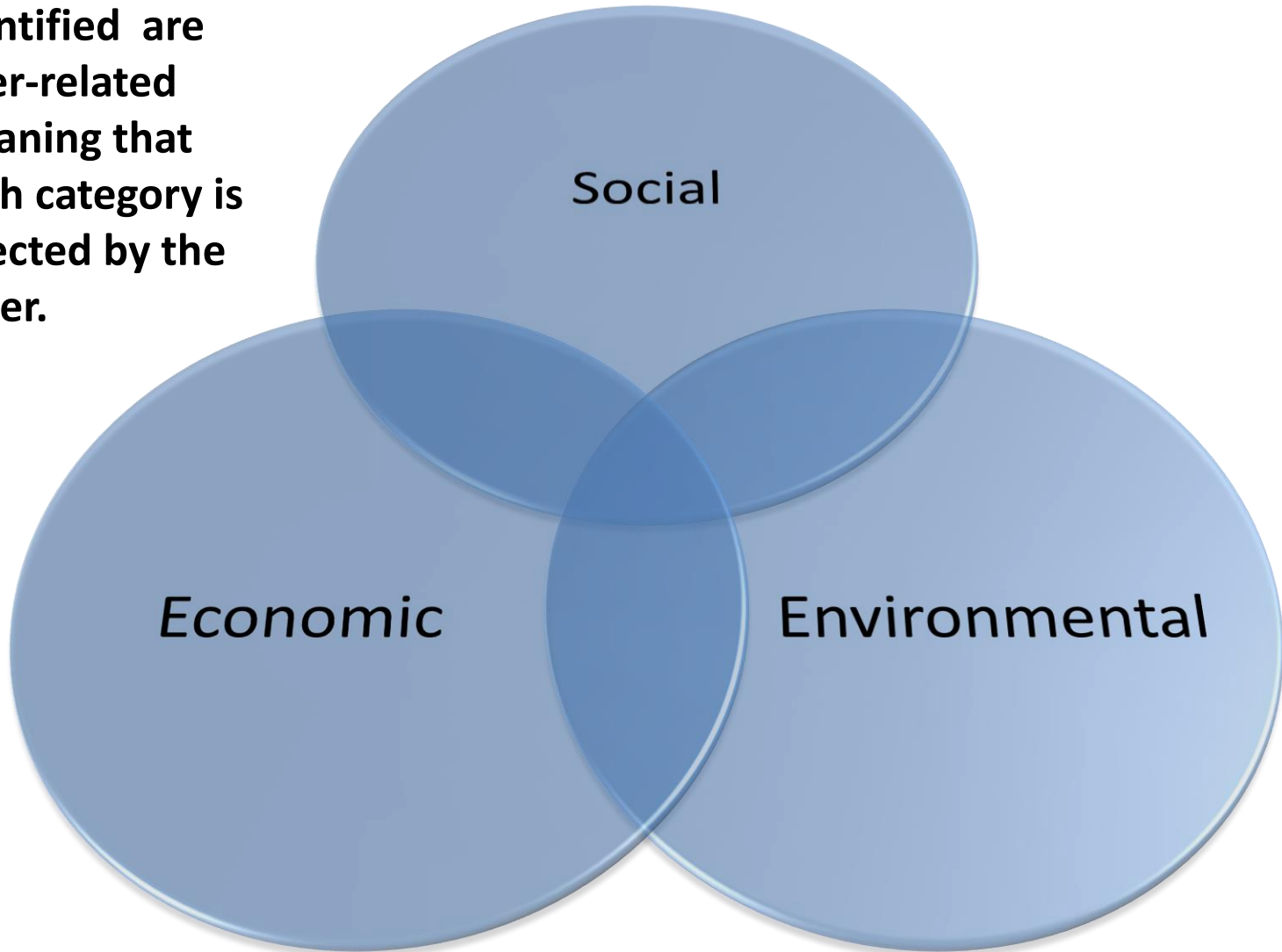
## Economic

- Employment
- Industry and Trade
- Agriculture
- Tourism
- Infrastructure such as bridges roads and highways

## Environmental

- Land
- Natural vegetation
- Water
- Air

**The three impacts identified are inter-related meaning that each category is affected by the other.**





# Hurricane Impact

View the following videos which shows some of the impacts of hurricane Dorian on The Bahamas

<https://www.youtube.com/watch?v=P6ShYNAAyAQ>

<https://www.youtube.com/watch?v=qluxhVpKdTw>

# Activity 2

Based on the video and your own research create a list of damage caused by Hurricane Dorian on The Bahamas.

When you are finished place each point under the correct impact on the following chart.

Ensure that there are at least 3 points under each heading.

<p><b>When was The Bahamas affected by Hurricane Dorian?</b></p> <p>When did the hurricane make landfall over The Bahamas?</p> <p>Which Bahamian islands were greatly affected by the passage of the hurricane?</p>	<p>List the Social Impacts of Hurricane Dorian.</p>
<p>List the Economic Impacts of Hurricane Dorian.</p>	<div> </div> <div> <p>Satellite Image of Hurricane Dorian over The Bahamas</p> </div>
	<p>List the Environmental Impacts of Hurricane Dorian</p>

Hurricanes help regulate temperature globally however they can also be very destructive.

- How do you feel about damages you read about and observed?

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- Suggest **TWO** activities that your school can organise to assist the people of The Bahamas.

## Activity 1

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# Activity 2

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# Answers - Activity 1

Weather conditions at the following sections of a hurricane

- Eye – this is the centre of the hurricane. Calm conditions are experienced. There are clear skies and the wind is gentle.
- Eye wall – this is the area round the eye. This section has the strongest winds over 100km/hr. Huge towering cumulonimbus clouds are present which causes the heaviest rainfall.
- Rain bands – this section is extensive and can and contains spirals of clouds that produce thunderstorms. It contains moisture-laden air and is responsible for the torrential rains for days in an area.

# Answers - Activity 1

Three aspects of a hurricane that can threaten life and property?

- Strong winds
- Storm surge
- Heavy rainfall and inland flooding
- Landslides



# Answers - Activity 2

## **Social Impacts**

- 70 deaths were recorded with 200-300 people missing. Sixty people died on the island of Abaco and 10 on Grand Bahama.
- 9,000 homes were damaged or destroyed.
- Seven schools were destroyed and 45 educational facilities damaged, leading to the reassignment of 1,500 displaced students.
- 60,000 people were in need of food and water assistance.
- Thousands were traumatized and in need of counselling.

# Answers - Activity 2

## Economic Impacts

- The country experienced about United States \$3.4 billion dollars in losses.
- Nearly 29,500 people lost their jobs
- There was significant damage to tourism facilities.
- Disruption of medical supplies and electrical and water supply on Abaco and Grand Bahama.
- Severe damage to the Rand Memorial Hospital (RMH) and four clinics located in the eastern part of Grand Bahama.
- 31 Government damaged or destroyed.

# Answers - Activity 2

## **Economic Impact**

- The transport infrastructure, including roads, ports and airports was damaged on Abaco and Grand Bahama due to storm surge and strong winds.
- All the fishing processing facilities were affected.
- Several green houses were destroyed, and many crops were damaged by wind and intrusion of salt water from the sea.

# Answers - Activity 2

## Environmental Impacts

- Oil spilled out of the Norwegian energy company storage facility at Grand Bahama
- Wave action, storm surge and high winds produced partial to severe destruction to mangroves, coral reefs, seagrass beds and forests on both Abaco and Grand Bahama.
- There was the disappearance of habitats, and displacement of species, particularly the fishing industry.

Suggest three activities that your school can organise to assist the people of The Bahamas.

- Host a fund raiser at the school and money received given to disaster relief organisations such as The Red Cross
- Provision of school supplies for distribution to affected students.
- Non-perishables food drive supplied to relief organisations.
- Advocacy through social media or community walk about.