

An aerial photograph of a city, likely Manila, Philippines, showing a wide river (Makati River) flowing through a densely populated urban area. The city skyline is visible in the background under a cloudy sky. The foreground shows a mix of residential buildings, trees, and a riverbank.

# LESSON PLAN

# BARANGAY

# TUMANA



# BARANGAY TUMANA



Barangay Tumana is located in Marikina City, which is part of Metro Manila in the Philippines. This barangay is situated along the Marikina River, which is known for its vulnerability to flooding, especially during the rainy season and when typhoons pass through the area. Efforts to enhance flood resilience, infrastructure development, and community preparedness are ongoing to address this critical issue.



An aerial photograph of a city, likely in the Philippines, showing a river flowing through a densely populated area. The river is surrounded by lush green trees and vegetation. In the background, a city skyline with several tall buildings is visible under a cloudy sky. The foreground shows a mix of residential and commercial buildings, with some areas appearing to be flood-prone or recently flooded.

## GOAL OF THIS LESSON PLAN

To learn about the case of  
Barangay Tumana in terms  
of increased flood risk and  
understand who are the  
stakeholders in climate  
change effects and solutions.



**Grade Levels:**  
9th, 10th, 11th, 12th

**BARANGAY TUMANA**

**Duration:**  
**60 MINUTES**

# OBJECTIVES

- To learn about the case of Barangay Tumana in terms of increased flood risk
- To understand climate-related hazards
- To understand the stakeholders in climate change effects and solutions



# RESOURCES

- Barangay Tumana Video (News on Flood)
- Barangay Tumana Journal





# GUIDE

- Divide the class into 3-4 groups before beginning the lesson as you will be conducting a brainstorming activity.
- The file is provided as reference; you may edit the instructions depending on your needs just in case it may be too easy or too difficult for your chosen grade level.







# QUESTIONS FOR REFLECTION

- What are the causes of the increased flood risk in Barangay Tumana?
- Who are the stakeholders in formulating a solution to the increased Climate Change vulnerability of Barangay Tumana?



# INTRODUCTION

- Introduce Barangay Tumana.
- Read the Barangay Tumana text.
- Discuss the details and give initial instructions for the activity.

**Duration:**  
**15 MINUTES**



# ANALYZE

- With their respective groups, ask the students to brainstorm on the causes of the increased flood risk in Barangay Tumana.
- Ask them to choose one of the stakeholders and think of a way how can this stakeholder help in formulating a solution to the vulnerability of their Barangay.

**Duration:**  
**15 MINUTES**



# DISCUSSION / COLLABORATION

- Ask 1 representative from each group to share what they have discussed & on the board, write 2-3 important words that each of them will mention as they share their output.
- After each group has shared, you may choose & underline only 5 words from what you have written on the board OR use all of them as choices.
- Then ask each group to come up with one sentence using at least 5 words on the board. The statement must be related to climate change or the environment. Example: solution, flood, climate, stakeholder, disaster Statement: In order to decrease climate related disasters such as flood, stakeholders must work together to come up with climate change solutions.

**\*\*If you can, prepare photos that you want to include in the discussion.**

**Duration:**  
**20 MINUTES**



# ASSESSMENT / REFLECTION

- Ask each group to read aloud the sentence that they made.
- Call 2-3 students to \*\*answer the Questions for Reflection\*\*

\*\* Provide as an assignment if necessary. **Duration:**  
**10 MINUTES**