

1. Introduction

- Hello everyone, my name is _____.
- Today, I am going to talk about _____.

2. Bridge Type and Definition

- The type of bridge I will discuss is a _____.
- A _____ bridge is a structure that _____.

3. Characteristics and Purpose

- This type of bridge is known for _____.
- The main purpose of this bridge is to _____.

4. Key Components

- The key components of this bridge include _____, _____, and _____.
 - The _____ is used to _____.
 - The _____ helps to _____.
 - The _____ supports _____.

5. Forces and Load Distribution

- One important concept in bridge engineering is the force of _____.
 - This force _____ the materials of the bridge.
- Another important force is _____.
 - This force _____ the materials of the bridge.
- The load of the bridge includes _____ and _____.
 - Engineers calculate the load to ensure _____.

6. Real-life Example

- A real-life example of this type of bridge is the _____.
- This bridge is located in _____ and is used to _____.

7. Conclusion

- In conclusion, the _____ bridge is important because _____.

- Thank you for listening to my presentation.

2. Bridge Type and Definition

- a. Beam Bridge
- b. Arch Bridge
- c. Suspension Bridge
- d. Cable-stayed Bridge

3. Characteristics and Purpose

- e. Simple design, strong and durable, can span long distances, efficient design
- f. Provide passage over obstacles, connect two points, carry heavy loads

4. Key Components

- o Deck, supports, cables, piers, abutments, foundation

5. Forces and Load Distribution

- o Tension, compression
- o Pulls apart, pushes together
- o Weight of the bridge, traffic, safety

6. Real-life Example

- o Golden Gate Bridge, Han River Bridge, Incheon Bridge, Seongsu Bridge

8. Introduction

- Hello everyone, my name is **Hyeonseong Shin**.
- Today, I am going to talk about **beam bridges**.

9. Bridge Type and Definition

- The type of bridge I will discuss is a **beam bridge**.
- A **beam bridge** is a structure that **consists of a horizontal beam supported at each end by piers**.

10. Characteristics (Purpose)

- This type of bridge is known for **its simple design**.
- The main purpose of this bridge is to **provide passage over short distances**.

11. Key Components

- The key components of this bridge include **the deck**, **the piers**, and **the supports**.
 - The **deck** is used to **carry the traffic**.
 - The **piers** help to **support the deck**.
 - The **supports** provide **stability**.

12. Forces and Load Distribution

- One important concept in bridge engineering is the force of **tension**.
 - This force **pulls apart** the materials of the bridge.
- Another important force is **compression**.
 - This force **pushes together** the materials of the bridge.
- The load of the bridge includes **the weight of the bridge** and **the traffic it carries**.
 - Engineers calculate the load to ensure **the bridge is strong enough**.

13. Real-life Example

- A real-life example of this type of bridge is the **Seongsu Bridge**.
- This bridge is located in **Seoul** and is used to **connect the Gangnam and Seongdong districts**.

14. Conclusion

- In conclusion, the **beam bridge** is important because **it is simple and effective for short spans.**
- Thank you for listening to my presentation.