

BRIDGES



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INTRODUCTION

CONTENT:

- What is a bridge and viaduct
- Bridges by use
- Different materials for bridges
- Different constructions of bridges
- Most famous bridges



WHAT IS A BRIDGE AND VIADUCT?

- **Bridge** is a structure that is build over water (river, lake, sea)
- **Viaduct** is a structure that crosses valleys, railways and other roads
- Main purpose is that allows people and vehicles to cross from one side to the other

POSITIVE QUALITIES

- They shorten the distance
- Less CO₂
- They connect continents (Europe- Asia) and islands with land



BRIDGES BY USE

AQUEDUCT:

- It was invented by Romans
- It has interesting construction
- Allows water to flow over a valley or gorge



BRIDGES BY USE

ROAD BRIDGE:

- The most used of all bridges
- Intended for vehicles (cars, trucks, buses, ...)
- The world's longest road bridge is Danyang bridge in China which is 165km long



BRIDGES BY USE

TRAIN BRIDGE:

- They are designed to bear heavy loads
- Heavy trains
- Longest railway bridge is in India and is 9,15km long



BRIDGES BY USE

PEDESTRIAN BRIDGE:

- It is used for shorter distances
- For pedestrians and cyclists
- Carries smaller loads compared to other bridges



BRIDGES BY USE

WATER BRIDGE:

- Intended for water traffic
- Water bridges are quite rare



DIFFERENT MATERIALS FOR BRIDGES



Stone bridge



Wooden bridge



Steel bridge



Concrete bridge

DIFFERENT CONSTRUCTION OF BRIDGES

arch bridge



tied arch bridge



suspension bridge



cable-stayed bridge



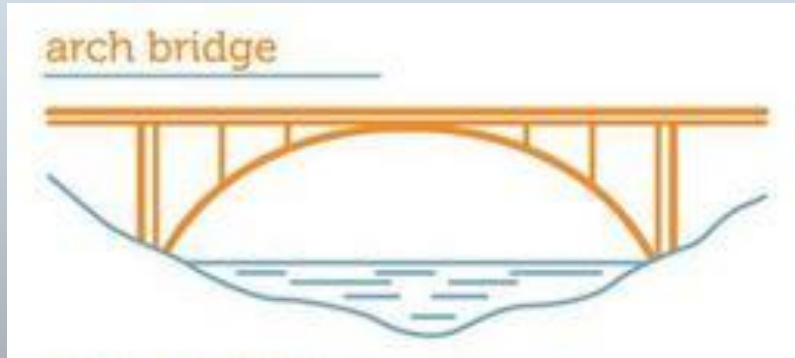
truss bridge



beam bridge



ARCH BRIDGE



Old bridge Maribor

TIED ARCH BRIDGE



Most čez Savinjo, Mozirje

SUSPENSION BRIDGE



CABLE-STAYED BRIDGE



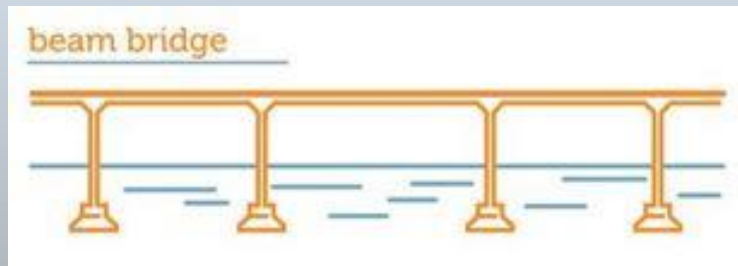
Puh bridge Ptuj

TRUSS BRIDGE

truss bridge



BEAM BRIDGE



Two- story bridge in Maribor

MOST FAMOUS BRIDGES

BROOKLYN BRIDGE

- New York, Brooklyn
- Made in 1883
- Total length: 1.834m
- Total width: 26m



MOST FAMOUS BRIDGES

TOWER BRIDGE

- United kingdom, London
- Made in 1894
- Total length: 244m
- Total width: 18m



MOST FAMOUS BRIDGES

GOLDEN GATE BRIDGE

- San Francisco, Marin Country
- Made in 1937
- Total length: 2.737m
- Total width: 27m



MOST FAMOUS BRIDGES

PONTE VECCIO

- Italia, Firenze
- Made in 966
- Total length: 95m
- Total width: 32m





Pelješac bridge, Croatia



Harbour bridge, Sydney



Millau Viaduct, France



Laguna Garzon bridge, Uruguay



Overpass for planes, Leipzig



Golden bridge, Vietnam

THANKS FOR LISTENING!

