

## BRIDGE COMPONENTS

**DECK** – This is the part that cars ride on. It transfers the weight (load) to the superstructure. It can be made of timber, concrete or steel.

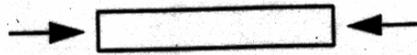
**SUPERSTRUCTURE** – This is the part which carries the load from the deck to the substructure. It can be made of timber, stone masonry, concrete, iron or steel.

**SUBSTRUCTURE** – Part which supports the superstructure and transfers the load to the ground. It can be made of timber, stone masonry, concrete or steel.

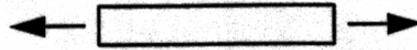
## BRIDGE ENGINEERING PRINCIPLES

There are three forces that are placed upon a bridge:

**COMPRESSION**



**TENSION**



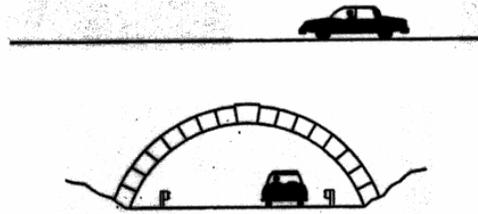
**BENDING**



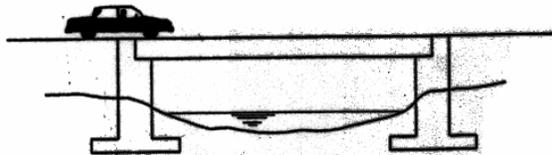
## **BRIDGE TYPES**

There are several types of bridges, the following are a few examples of the most common types of bridges:

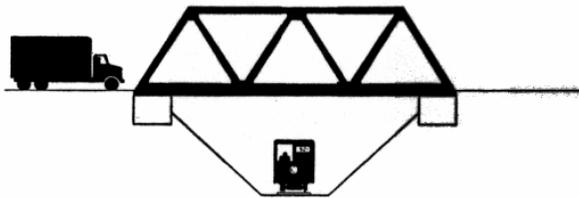
- ARCH



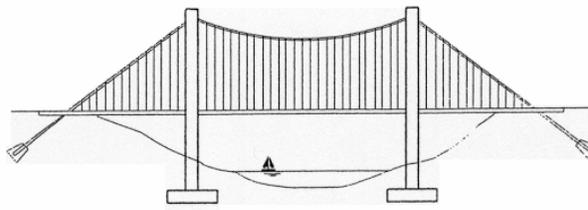
- BEAM



- TRUSS



- CABLE SUPPORTED



## **BRIDGE MATERIALS**

- STONE
  - WOOD
  - CONCRETE
  - STEEL
-