



VIA /TCU WORKSHOP A2015

## Building Pre-Technical English

Name:

Group:



VIA University  
College

## *Shape, properties and structures*

### **1.1: Written practice:**

This practice will be done in class as a group work. The sentences produced will be progressively improved till they are fully correct. Final result will be deleted and the task done at home again as an individual task.



1) What is the case of the watch made of?

2) Does stainless mean corrosion resistant or shock resistant?

3) Explain "Shock Proof"

4) The watch is waterproof. What does it mean?

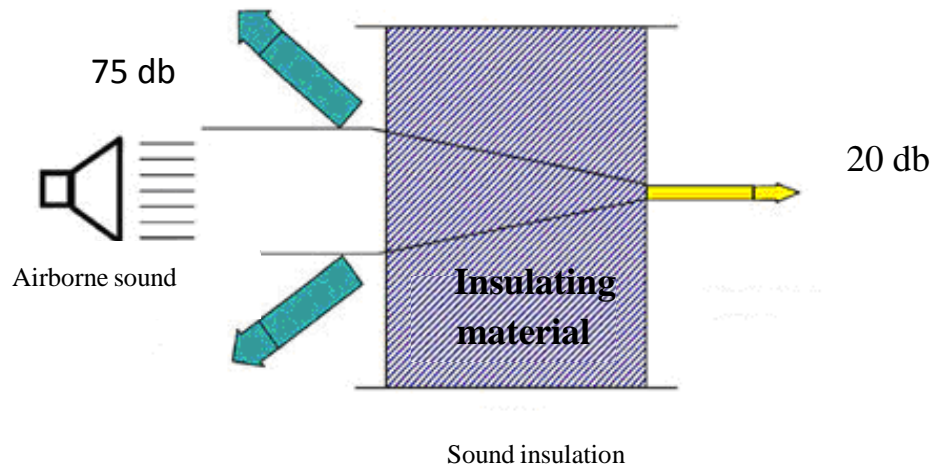
5) Explain what would happen if the watch was kept under water more than 10 meters deep.

### **2.1: From the diagram shown below explain the principle of sound insulation (You can use a translating dictionary)**

- Some hints and some help with the words :
  - To emit a sound
  - A loud speaker
  - To reflect
  - To transmit through
  - To decrease / to loose
  - A decrease / a loss

Room 1

Room 2



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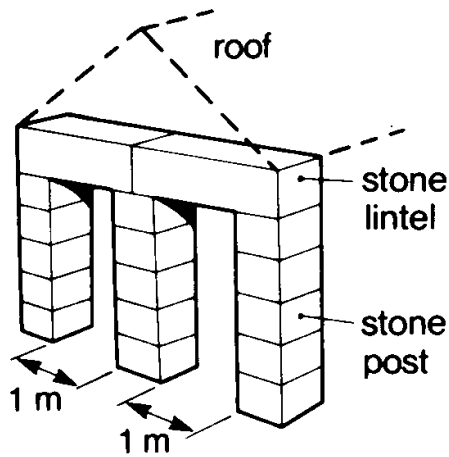
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### 3: Presentation structural systems



3.1 Describe the structure:

How many elements are composed in the structure?

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What is the function of stone lintel?

.....

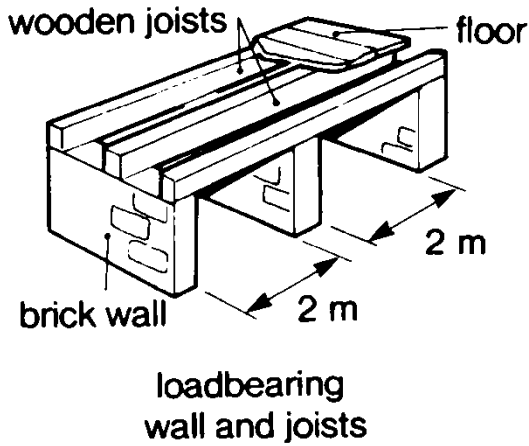
What is the function of stone post ?

.....

3.2 Write a sentence of your own about the notion of 1m shown on the picture

.....

3.3 From the sketch shown here, write a series of sentences using the following words



To be composed of.:

.....

.....

.....

To support:

.....

*Shapes, properties and structures*

To rest:

.....

The span :

.....

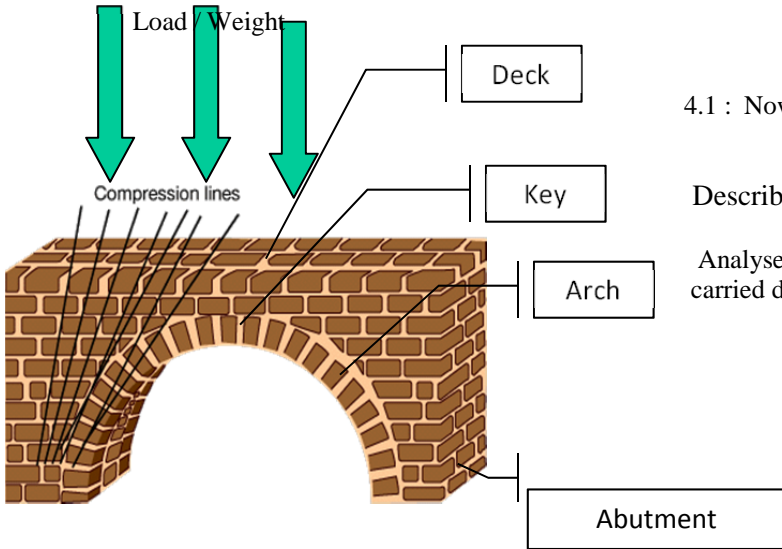
The function:

.....

To transmit:

.....

**4. Describe and explain**



4.1 : Now, write your own text:

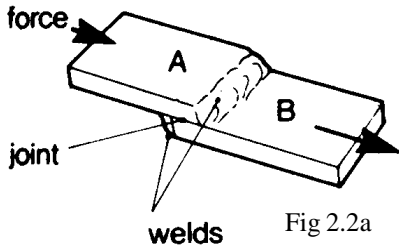
Describe the structure

Analyse the transmission of forces and the loads carried down to the ground.

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.....  
.....  
.....

### 5. Skill transfer

Joints / connections and transmission of forces:



In fig 2.2a plate A is joined / connected to plate B by welds: they are welded together. The side force applied to plate A is transmitted to plate B. The connection has to be properly designed so that it can react the stress and avoid the breakage / failure of the joint.

Now complete the gaps :

Figure 2.2b shows a steel structure. The I shaped beam is .....to the steel girder by.....They are .....together. The force .....to the steel girder is .....through the bolts. The .....has to be well made with the proper diameter in order to.....the .....of the bolts because of the overload.

