

Subject: GCSE Engineering

Task 2: Engineering Processes – Joining and Assembly

- List as many different methods of joining materials together as possible.
- Now try to put them into the following three categories:
 - METALLURGICAL
 - MECHANICAL
 - ADHESIVE
- Then decide if they are P= Permanent or NP = Non-permanent.

Answer the questions below:



BRAIN TEASER

Engineering Processes - Joining and Assembly

1. Give two advantages of using a threaded fastener, such as a nut and bolt, to join pieces of metal together. [2 Marks]

2. Give two advantages of brazing pieces of metal together. [2 Marks]

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

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

3. Name two other processes that use heat, and can be used to join metal pieces together. [2 Marks]

.....
.....

4. State why you would use a pop rivet instead of a solid rivet. [1 Mark]

.....
.....