REVISION CARDS - WELDING

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS https://www.facebook.com/groups/254963448192823/

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On behalf of The World Association of Technology Teachers





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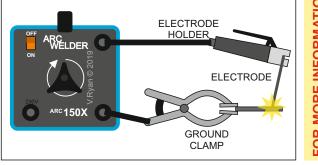
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REVISION CARDS - ELECTRIC ARC, SPOT WELDING AND MIG WELDING www.technologystudent.com © 2017 V.Ryan © 2017

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ELECTRIC ARC WELDING

Electric arc welding - the metal to be welded is clamped in the earthing /ground clamp. An electrode is gripped in the electrode holder. A suitable 'current' is selected by turning the current selector handwheel. When the electrode comes into contact with the metal, an 'electric arc' is formed, creating immense heat. At this point both the electrode and metal surface melt and fuse together, creating a weld.



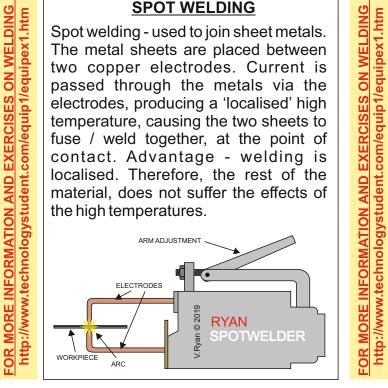
1. Describe Spot Welding

4 marks

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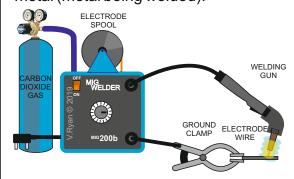
SPOT WELDING

Spot welding - used to join sheet metals. The metal sheets are placed between two copper electrodes. Current is passed through the metals via the electrodes, producing a 'localised' high temperature, causing the two sheets to fuse / weld together, at the point of contact. Advantage - welding is localised. Therefore, the rest of the material, does not suffer the effects of the high temperatures.



MIG WELDING (Metal Inert Gas)

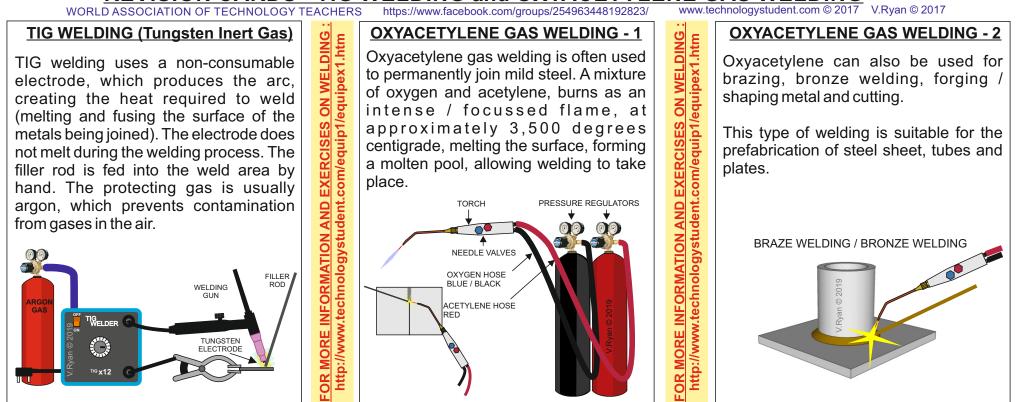
The electrode is a continuous stream of wire, with a direct current source and fed through the welding gun. Carbon dioxide gas is supplied directly to the welding zone, protecting the area from atmospheric contaminants. The electrode, produces an 'arc', heating the welding area and fuses the wire electrode with the surface of the base metal (metal being welded).



2. What is the purpose of carbon dioxide, during MIG welding?

2 marks

REVISION CARDS - TIG WELDING and OXYACETYLENE GAS WELDING



3.How does TIG welding differ from Electric Arc welding?

3 marks

4. What is oxyacetylene gas welding? 3 marks _____