

## Metal Cutting / Filing Techniques - LESSON 1

**Task:** In the boxes below draw and label diagrams to show the correct technique for using a hacksaw and when this technique is used. A high level work will show accurate drawings and labels with well written explanations.

Using a Hacksaw

Sketch

# DT KS4 METAL HOMEWORK / THEORY

# 11 Lessons

METAL + PLASTIC  
DUE TO SMALL TH  
(24-32)

NO BLACK COAT  
STAIN +  
TOUGH, IF  
SHARPEN METAL  
NEEDS IT THE EDGE

Using a File - Cross Filing



Using a File - Cross Filing

# INDEPENDENT LEARNING

SLIGHT BOWLE  
FORWARD  
CORNER IS  
BUILT AND CUTTING  
REMOVES THERE

WIDER  
BE CUT SEE  
IN VIDEO

## Contains:

Hyperlinks to videos for EVERY stage  
"Notes and Sketches" Tasks  
Differentiated Questions

What have you learnt to

Can you answer the question below that relates to your  
or grade.  
7/9 - A03 Describe in detail the best method of cutting and smoothing an  
edge on a piece of steel. Explain your choices.  
4/6 - A03 Explain what a hack saw does and the difference between  
cross and draw filing.  
1/3 - A03 List 4 tools used to cut and shape metal

To know that there are different techniques or methods for working with metal.

The best method of cutting on edge on sheet steel is the guillotine action will create a  
clean straight edge. Any burrs that are created should be filed away. To cut thicker steel,  
the hole saw should be used, and the rough edges cleaned up with cross and draw  
filing to remove any surface marks.

# Metal Work Theory Nprevious Paper

**Daniela Niemeyer**



## **Metal Work Theory Nprevious Paper:**

A Guide to the Literature on High-velocity Metalworking D. E. Strohecker, D. H. Owens, 1962 This report is a guide to the literature on high velocity metalworking It consists primarily of abstracts of articles reports books and current research projects on and related to high velocity metalworking arranged according to technical subject It covers a survey of the reported work in the field up to about October of 1962 Abstracts of over 700 references have been arranged by subject matter with cross indexing between subjects There is also an author index The eleven major subjects and categories covered in the report are 1 Energy Sources 2 Energy Transfer Mediums 3 Facility Requirements 4 Tooling Requirements 5 Equipment Requirements 6 Forming 7 Hardening 8 Explosive Welding 9 Powder Compaction 10 Metal Removal and 11 Material Behavior *Many-body Theory of Molecules, Clusters, and Condensed Phases* Norman Henry March, G. G. N. Angilella, 2010 This book provides a comprehensive review of seminal as well as recent results in the theory of condensed phases including liquid metals quantum liquids and Wigner crystals along with selected applications especially in the physical chemistry of molecules and clusters A large part of this work is dedicated to The Thomasndash Fermi semiclassical approximation for molecules and condensed phases and its extension to inhomogeneous electron liquids and liquid metals Correlation effects in quantum liquids and Wigner crystallization are other areas of focus of this work with an emphasis towards the effect of low dimensionality and magnetic fields The volume is a collection of reprints by N H March and collaborators over five decades

**The Corrosion of Metals, Theory and Experiments: General theory** Knut Vilhelm Palmaer, 1929 **Proceedings of the Institute of Metals Division** American Institute of Mining, Metallurgical, and Petroleum Engineers, 1929 *London, Edinburgh and Dublin Philosophical Magazine and Journal of Science*, 1911 *Science Abstracts*, 1908 *Metal Industry and the Iron Foundry*, 1922 *Philosophical Magazine*, 1915 **Proceedings of the Royal Society of London** Royal Society (Great Britain), 1928 **A General Electromagnetic Theory of Electric Machines**, 1929 **Factory Organization and Administration** Hugo Diemer, 1921 Proceedings Physical Society of London, 1920 **Gas Journal**, 1882 *Applied Mechanics Reviews*, 1960 **Journal of the Institute of Metals** Institute of Metals, 1926 Issues for Sept 1951 include the Bulletin **Journal of the Society of Chemical Industry**, 1917 Transactions of the American Institute of Mining and Metallurgical Engineers, 1928 *Index to the Literature of Food Investigation*, 1929

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