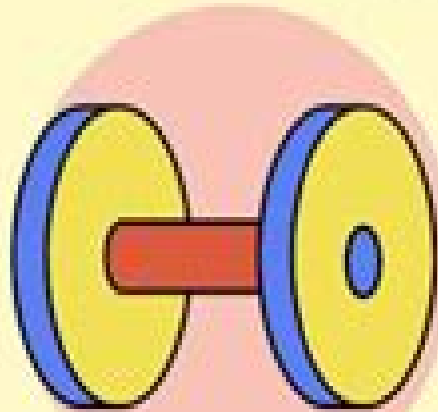
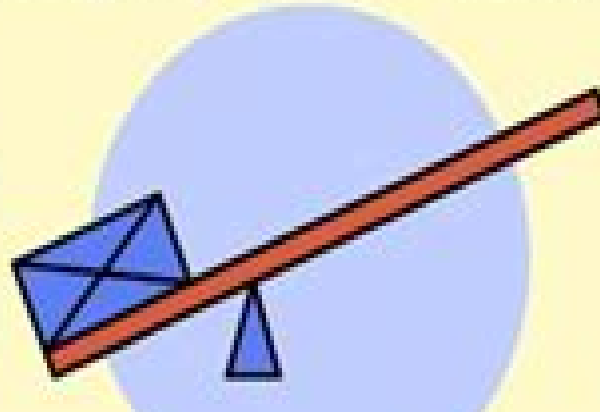


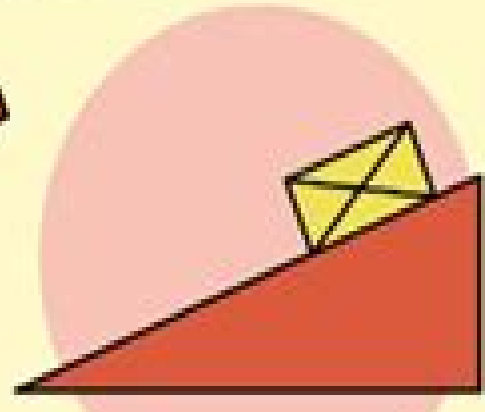
# Simple Machines



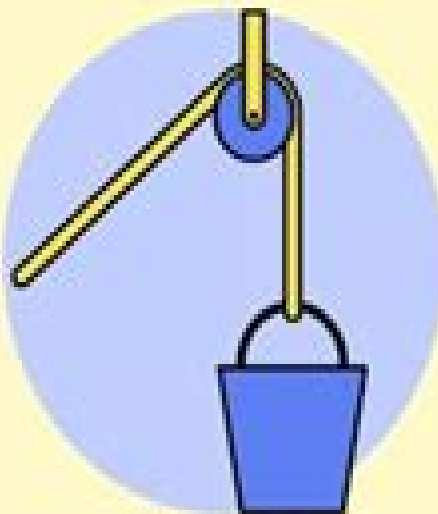
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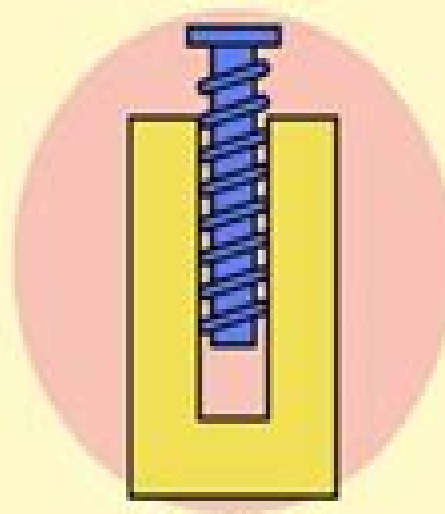
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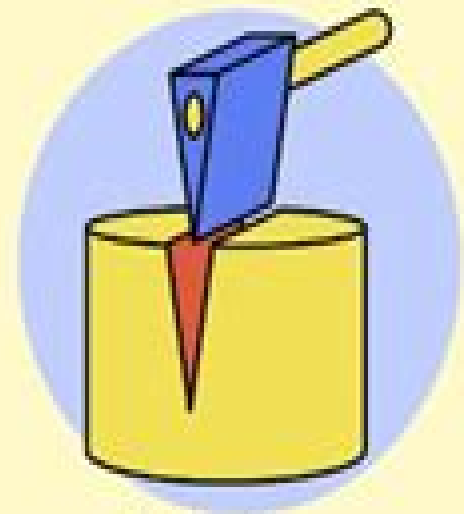
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**Pulley**



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**Wedge**

# Basic Machines And How They Work

**U. S. Navy Bureau of Naval Personnel**



## **Basic Machines And How They Work:**

Basic Machines and how They Work United States. Bureau of Naval Personnel, 1971-06-01 A simple introduction to the principles of mechanical engineering which presupposes only an elementary knowledge of mathematics Basic Machines and How They Work Naval Education And Training Program, 2025-05-08T00:00:00Z This first edition of an extremely clear Navy training manual leaves nothing to be desired in its presentation Thorough in its coverage of basic theory from the lever and inclined plane to internal combustion engines and power trains it requires nothing more than an understanding of the most elementary mathematics Beginning with the simplest of machines the lever the text proceeds to discussions of the block and tackle pulleys and hoists wheel and axle the inclined plane and the wedge the screw and different types of gears simple spur bevel herringbone spiral worm etc A chapter on the concept of work discusses the measurement of work friction and efficiency this is followed by investigations of power force and pressure with explanations of the uses of scales balances gauges and barometers The fundamentals of hydrostatic and hydraulic machines such as the hydraulic braking system and the hydraulic press are discussed in detail The remaining chapters cover machine elements bearings and springs basic mechanisms gear differential couplings cams clutches the internal combustion engine and power trains including explanations of various transmission systems synchromesh auxiliary etc Every concept is clearly defined and discussions always build easily from elementary theory to specific applications familiar to anyone with the slightest interest in mechanics Important concepts machine components and techniques are clearly illustrated in more than 200 diagrams drawings and cross sections that reveal inner workings these helps to clarify even further an already clear and well organized presentation Although it was originally designed for use in U S Naval Training Schools this book can be used to great advantage as a basic text in mechanical engineering in standard technical schools and it will be immensely valuable even to lay readers who desire a basic knowledge of mechanics **Basic Machines and How They Work** Naval Education, 2012-09-19 Only elementary math skills are needed to follow this manual which covers many machines and their components including hydrostatics and hydraulics internal combustion engines trains and more 204 black and white illustrations *Basic Machines and How They Work* Naval Education and Training Program, 2012-05 Written as a reference for Navy personnel whose duties required knowledge of the fundamentals of machinery Covers simple machines concepts of work and power fundamentals of hydrostatic and hydraulic mechanisms and the combination of simple machines to make complex machines **Basic Machines and How They Work** Naval Education and Training Program, 2018-06-20 2018 Reprint of 1965 Edition Full facsimile of the original edition Not reproduced with Optical Recognition software This first edition of an extremely clear Navy training manual leaves nothing to be desired in its presentation Thorough in its coverage of basic theory from the lever and inclined plane to internal combustion engines and power trains it requires nothing more than an understanding of the most elementary mathematics Beginning with the simplest of machines the lever the text proceeds to discussions of the block

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