

1.) To be considered work, you have to have a force and a distance through which the force acts.

3.) What does something have to do to be considered a machine?

4.) Decide if work is done for each of the following: (Are the requirements for WORK met?)

b. A baseball is hit into the bleachers. **Work** or **NO work**

Work or NO work

1.) What are the 2 basic types of simple machines, of which all other simple machines are variations of? Also list the other simple machines in the correct category under the heading.

**Wedge**

**pulley**

## Screw

wheel and axle

2.) In general, what do most simple machines do?

**Simple machines make work easier by reducing the force needed.**

3.) Do simple machines make less work? Explain.

**No. Simple machines make work easier, they do not decrease the amount of work. Simple machines can actually make more work due to friction.**

4.) What do we mean when we say "machines make work easier?" (force vs. distance)

**Simple machines make work easier to do by decreasing the force required by increasing the distance over which the work is done.**

5.) A force applied by a machine to an object is the?

a.) resistance force

b.) effort force

c.) force field

d.) jedi force

6.) A force applied to a machine by a person is the?

a.) resistance force

b.) **effort force**

c.) force field

d.) Ledi force

7.) Simple machines make work easier, however there are 2 exceptions to this rule. What are the exceptions, and in each case, what is the "advantage" each machine gives us?

**1. single fixed pulley - changes the direction of a force**

2. 3<sup>rd</sup> class lever – gives us increased speed

# Work And Simple Machines Study Guide

**JG Myers**



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*Mechanical Aptitude Test Study Guide* Darcy West, 2025-03-12 Have you ever wondered how the machines that power our world actually work From the cars we drive to the machines that shape our industries understanding mechanical systems is crucial in today s technology driven world Whether you re preparing for a mechanical aptitude test looking to enhance your engineering knowledge or simply curious about how mechanical systems function this book provides the essential foundation you need to grasp core mechanical principles and apply them with confidence This guide takes you on a journey through the world of mechanics offering a thorough exploration of the key concepts every engineer technician or aspiring professional needs to understand From simple machines like levers and pulleys to complex systems involving hydraulics pneumatics and thermodynamics this book covers a wide range of topics with easy to understand explanations and real world applications Designed with the learner in mind this book features step by step explanations of mechanical concepts such as force work energy and motion You ll discover how mechanical advantage works how gears and pulleys transfer power and the principles behind heat transfer and fluid mechanics Every section is packed with practical examples and insightful exercises that help you apply theory to practice preparing you for any mechanical aptitude test or real world engineering challenge Whether you re an aspiring mechanical engineer a student preparing for exams or someone interested in DIY mechanical projects this book provides the knowledge you need to succeed The practice exams and problem solving exercises throughout will help you test your understanding and ensure you re fully prepared to tackle mechanical aptitude tests and beyond In addition to fundamental concepts the book dives into the workings of hydraulic and pneumatic systems explores the science behind thermodynamics and explains the mechanics of electrical circuits and power tools You ll learn how these systems are applied in real world industries like automotive construction manufacturing and more With practical examples from the field this book emphasizes how theoretical knowledge translates into tangible hands on applications If you re a beginner or an experienced professional looking to refresh your knowledge this guide will serve as an indispensable resource offering both foundational knowledge and practical insight into the world of mechanical systems Build your skills boost your confidence and unlock the potential to excel in your mechanical endeavors

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