

**Force and Work-**

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

2.) What is the formula for work? work = force x distance. What is the unit for work? joules.

3.) What does something have to do to be considered a machine?  
**A machine is any device that makes doing work easier.**

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

- Someone is sitting on a cushion on the floor. Work or NO work
- A baseball is hit into the bleachers. Work or NO work
- Ms. Jarrett holds a doorstop in one place to show you an example of a wedge.  
Work or NO work
- A little girl is pushed on a swing. Work or NO work

**Simple Machines Basics**

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.

inclined planes & levers  
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.) Jedi 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**

## **Work And Simple Machines Study Guide:**

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## **Table of Contents Work And Simple Machines Study Guide**

1. Understanding the eBook Work And Simple Machines Study Guide
  - The Rise of Digital Reading Work And Simple Machines Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Work And Simple Machines Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Work And Simple Machines Study Guide
  - User-Friendly Interface

4. Exploring eBook Recommendations from Work And Simple Machines Study Guide
  - Personalized Recommendations
  - Work And Simple Machines Study Guide User Reviews and Ratings
  - Work And Simple Machines Study Guide and Bestseller Lists
5. Accessing Work And Simple Machines Study Guide Free and Paid eBooks
  - Work And Simple Machines Study Guide Public Domain eBooks
  - Work And Simple Machines Study Guide eBook Subscription Services
  - Work And Simple Machines Study Guide Budget-Friendly Options
6. Navigating Work And Simple Machines Study Guide eBook Formats
  - ePUB, PDF, MOBI, and More
  - Work And Simple Machines Study Guide Compatibility with Devices
  - Work And Simple Machines Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Work And Simple Machines Study Guide
  - Highlighting and Note-Taking Work And Simple Machines Study Guide
  - Interactive Elements Work And Simple Machines Study Guide
8. Staying Engaged with Work And Simple Machines Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Work And Simple Machines Study Guide
9. Balancing eBooks and Physical Books Work And Simple Machines Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Work And Simple Machines Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Work And Simple Machines Study Guide
  - Setting Reading Goals Work And Simple Machines Study Guide
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Work And Simple Machines Study Guide
  - Fact-Checking eBook Content of Work And Simple Machines Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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