

## Physical Science - Chapter 14 Review Sheet

- When does a force applied to an object not do any work? **When there is no displacement**
- What is the unit of work? **Joule**
- If you exert a force of 10.0 N to lift a box a distance of 0.75 m, how much work do you do? **7.5 J**
- If you perform 30 joules of work lifting a 20-N box from the floor to a shelf, how high is the shelf? **1.5 m**
- The SI unit of power is the **Watt**
- If you exert a force of 500 N to walk 4 m up a flight of stairs in 4 s, how much power do you use? **500 W**
- A machine is a device that can multiply **Force**
- When a machine does work, it can do all of the following EXCEPT
  - change the direction of a force.
  - increase a force and change the distance a force moves.
  - increase the distance a force moves and change the direction of a force.
  - increase a force and increase the distance a force moves.**
- If you know the input distance and output distance of a machine, which of the following can you calculate? **IMA**
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 300 N, what is the actual mechanical advantage of the crowbar? **11**
- The efficiency of a machine is always less than 100 percent because **of friction**
- A motor with an efficiency rating of 80 percent must supply 300 J of useful work. What amount of work must be supplied to the motor? **375 J**
- Which of the following is an example of a wheel and axle?
 

a. <b>a doorknob</b>	c. a jar lid
b. <b>an automobile steering wheel</b>	d. a pencil
- The rate at which work is done is called **power**
- The force that is exerted on a machine is called the **input force**. **Output force**
- Besides a reduction in friction, the only way to increase the amount of work output of a machine is to **increase** the work input.
- The fulcrum is always between the effort force and the resistance force in a(an) **first**-class lever.
- The bottle opener shown in the figure is a(an) **second**-class lever.
- Compare the size and direction of the input and output forces shown in the figure to the right. **Same direction, output force is greater**
- The ideal mechanical advantage of a third-class lever is always **less** than 1.
- If you grease a ramp to make a box slide more easily, what happens to the ramp's mechanical advantage? **increases**
- If a simple machine could be frictionless, how would its IMA and AMA compare? **equal**
- How does friction affect the calculation of the IMA of a simple machine? **it doesn't**
- The input force of a pulley system must move 6.0 m to lift a 3000-N engine a distance of 0.50 m. What is the IMA of the system? **12**
- A force of 12 N is applied to the handle of a screwdriver being used to pry off the lid of a paint can. As the force moves through a distance 0.3 m, the screwdriver does 32 J of work on the lid. What is the efficiency of the screwdriver? **BAD QUESTION**
- What is the IMA of the ramp in the figure at the right? **3**



# Physical Science Chapter Section Assessment

**VM Jensen**



**Physical Science Chapter Section Assessment:**

The book delves into Physical Science Chapter Section Assessment. Physical Science Chapter Section Assessment is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Chapter Section Assessment, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physical Science Chapter Section Assessment
    - Chapter 2: Essential Elements of Physical Science Chapter Section Assessment
    - Chapter 3: Physical Science Chapter Section Assessment in Everyday Life
    - Chapter 4: Physical Science Chapter Section Assessment in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Physical Science Chapter Section Assessment. This chapter will explore what Physical Science Chapter Section Assessment is, why Physical Science Chapter Section Assessment is vital, and how to effectively learn about Physical Science Chapter Section Assessment.
  3. In chapter 2, the author will delve into the foundational concepts of Physical Science Chapter Section Assessment. The second chapter will elucidate the essential principles that need to be understood to grasp Physical Science Chapter Section Assessment in its entirety.
  4. In chapter 3, the author will examine the practical applications of Physical Science Chapter Section Assessment in daily life. The third chapter will showcase real-world examples of how Physical Science Chapter Section Assessment can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Physical Science Chapter Section Assessment in specific contexts. The fourth chapter will explore how Physical Science Chapter Section Assessment is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Physical Science Chapter Section Assessment. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Chapter Section Assessment.

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