

## 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 330 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 doorknob**
  - an automobile steering wheel**
  - a jar lid
  - a pencil
- The rate at which work is done is called **Power**
- The force that is exerted on a machine is called the **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(n) **1st-class lever**. **First**
- The bottle opener shown in the figure is a(n) **2nd-class lever**. **2nd**
- 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 of 0.3 m, the screwdriver does 3.6 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**



# Science Review Forces Section Answer Key

**Fred Drewes**

## Science Review Forces Section Answer Key:

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## **Table of Contents Science Review Forces Section Answer Key**

1. Understanding the eBook Science Review Forces Section Answer Key
  - The Rise of Digital Reading Science Review Forces Section Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Science Review Forces Section Answer Key
  - 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 Science Review Forces Section Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Science Review Forces Section Answer Key
  - Personalized Recommendations

- Science Review Forces Section Answer Key User Reviews and Ratings
- Science Review Forces Section Answer Key and Bestseller Lists

5. Accessing Science Review Forces Section Answer Key Free and Paid eBooks

- Science Review Forces Section Answer Key Public Domain eBooks
- Science Review Forces Section Answer Key eBook Subscription Services
- Science Review Forces Section Answer Key Budget-Friendly Options

6. Navigating Science Review Forces Section Answer Key eBook Formats

- ePUB, PDF, MOBI, and More
- Science Review Forces Section Answer Key Compatibility with Devices
- Science Review Forces Section Answer Key Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Science Review Forces Section Answer Key
- Highlighting and Note-Taking Science Review Forces Section Answer Key
- Interactive Elements Science Review Forces Section Answer Key

8. Staying Engaged with Science Review Forces Section Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Science Review Forces Section Answer Key

9. Balancing eBooks and Physical Books Science Review Forces Section Answer Key

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Science Review Forces Section Answer Key

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Science Review Forces Section Answer Key

- Setting Reading Goals Science Review Forces Section Answer Key
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Science Review Forces Section Answer Key

- Fact-Checking eBook Content of Science Review Forces Section Answer Key

- 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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