

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Gravitational Potential Energy Practice Problems

1. A man with a mass of 80 kg is standing on the edge of a table that is 1.5 meters above the ground. What is the man's potential energy?

$$GPE = mgh = 80 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1.5 \text{ m} = \boxed{1,176 \text{ J}}$$

2. A high jumper clears a vertical distance of 2.45 m, and at the top of his trajectory his potential energy was 1590 J. What is the jumper's mass?

$$1590 \text{ J} = m \times 9.8 \text{ m/s}^2 \times 2.45 \text{ m}$$

$$\boxed{m = 66.2 \text{ kg}}$$

3. A city is situated 4080 m above sea level. If a car with a mass of 905 kg is driven from a location that is 1860 m above sea level to the city, what is the increase in potential energy?

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 4080 \text{ m} = 36,185,520 \text{ J}$$

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1860 \text{ m} = 16,496,340 \text{ J}$$

$$36,185,520 \text{ J} - 16,496,340 \text{ J} = \boxed{19,689,180 \text{ J}}$$

4. A 3.0 kg bowling ball is pushed down a 15 m high ramp. What is the potential energy of the bowling ball at the top of the ramp, in the middle of the ramp, and at the bottom of the ramp?

$$\text{Top} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 15 \text{ m} = \boxed{441 \text{ J}}$$

$$\text{Middle} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 7.5 \text{ m} = \boxed{220.5 \text{ J}}$$

$$\text{Bottom} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 0 \text{ m} = \boxed{0 \text{ J}}$$

5. What relationship exists between gravitational potential energy and the height above the ground? Why?

As height  $\uparrow$ , GPE  $\uparrow$   
As height  $\downarrow$ , GPE  $\downarrow$

#### Challenge

6. A 2.0 kg rock is nudged off the edge of a 20 m ledge. At some point during the fall, the rock has lost 250 J of potential energy. At what height does this occur?

$$GPE = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times 20 \text{ m} = 392 \text{ J}$$

$$392 \text{ J} - 250 \text{ J} = 142 \text{ J}$$

$$142 \text{ J} = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times h$$

$$\boxed{h = 7.29 \text{ m}}$$

# Energy Practice Problems With Key

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## Energy Practice Problems With Key:

**Survival Guide to General Chemistry** Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step by step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid base reactions, which often persists through working with acid base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields. *Common Entrance 13+ Science Exam Practice Questions and Answers* Ron Pickering, 2022-05-13 Exam board ISEB Level 13 CE and KS3 Subject Science. First exams November 2022. Improve exam technique and build confidence to ensure success in the CE 13 Science exams with these practice questions in the style of the ISEB exams. Practice for all sections of the exam: Biology, Chemistry, and Physics for Foundation and Level 2 papers. Guidance on the exam: how to approach different types of questions and understand what is required from all possible questions. Identify gaps in knowledge; answers are included to help pinpoint areas for improvement. Pair with *Common Entrance 13 Science Revision Guide* for comprehensive exam preparation. ISBN 9781398340923. *U Can: Physics I For Dummies* Steven Holzner, Daniel Funch Wohner, 2015-08-10 Whether you're a student who just needs to know the vital concepts of physics or you're looking for a basic reference tool, this is a must-have guide. Free of ramp-up and ancillary material, it contains content focused on key topics only, provides discrete explanations of critical concepts taught in an introductory physics course, and provides a perfect reference for parents who need to review critical physics concepts as they help high school students with homework assignments. **Introduction to Energy and Sustainability** Ognjen S. Miljanic, Joseph A. Pratt, 2022-01-04 Ein umfassender Überblick über die derzeitigen Technologien zur Energieerzeugung und den heutigen Energieverbrauch. Dieses Fachbuch verbindet in einzigartiger Weise die Ansichten eines Soziologen mit denen eines Naturwissenschaftlers. Neben Erläuterungen und Ansätzen zur Quantifizierung von Energie und Nachhaltigkeit werden die heutigen Technologien zur Energieerzeugung und der aktuelle Energieverbrauch untersucht. Besonderes Augenmerk liegt dabei auf ökologischen, historischen und regulatorischen Aspekten jeder Energietechnologie. Alternative und zukünftige

Energietechnologien sowie Beispiele nachhaltiger Techniken alltäglicher Probleme bei Transport Stadtplanung und Eigenheimbau werden ebenfalls beleuchtet Introduction to Energy and Sustainability beschreibt zunächst die verschiedenen Konzepte und behandelt auch die Geschichte unserer Beziehung zu Energie definiert und quantifiziert Energie und Nachhaltigkeit den Energiefluss die Umwandlung von Energie und Stoffen die Gesetze der Thermodynamik und die heutige Energieherstellung Es folgt eine Untersuchung wie in unserer modernen Welt Energie erzeugt und verbraucht wird welche Arten von Energie zur Verfügung stehen und wie diese eingesetzt werden Das Fachbuch beschäftigt sich auch mit der Zukunft von Energie und damit wie wir vor dem Hintergrund einer sich verändernden Welt die heutigen und zukünftigen Energiequellen bereitstellen und nutzen werden Ausgewogene Darstellung der naturwissenschaftlichen und technischen Konzepte zu Energie und Nachhaltigkeit Diskutiert ausführlich die sozioökonomischen und geopolitischen Auswirkungen Verbindet in einzigartiger Weise die Ansichten eines Soziologen und eines Naturwissenschaftlers Behandelt ungelöste Fragen aus der Praxis und gibt Antworten Ein Buch für Studenten verschiedener Studiengänge aus dem Bereich Energie und für Biologen Introduction to Energy and Sustainability richtet sich an Postgraduierte von Studiengängen aus dem Bereich Energie Auch für Biologen Ingenieure Ingenieure der Energiewirtschaft und Chemiker in der Industrie von hoher Relevanz

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