

SPECIFIC HEAT WORKSHEETS

$Q = mc\Delta T$, where Q= heat energy, m = mass, and ΔT = change in temp. Remember, ΔT = (Tfinal—Tinitial).



Show all work and proper units.

- 1. A 15.75-gpiece of iron absorbs 1086.75 joules of heat energy, and its temperature changes from 25°C to 175°C. Calculate the specific heat capacity of iron.
 c = q/(m. \text{DT})
 c = 1086.75 J / (15.75 g × 150 °C)
 = 0.46 J/g °C
- 2. How many joules of heat are needed to raise the temperature of 10.0 g of aluminum from 22°C to 55°C, if the specific heat of aluminum is 0.90 J/g°C? q=mcΔT q= (10.0g)(0.90J/g°C)(33°C) q= 297 Joules
- 3. Calculate the specific heat capacity of a piece of wood if 1500.0 g of the wood absorbs 67,500 joules of heat, and its temperature changes from 32°C to 57°C.
 c = q/(m. \Delta T)
 c = 67,500 J / (1500.0 g × 25 °C)
 = 1.8 J/g °C
- 4- 100.0 g of 4.0°C water is heated until its temperature is 37°C. If the specific heat of water is 4.18 J/g°C, calculate the amount of heat energy needed to cause this rise in temperature. q=mcΔT q=(100 × 4.18 × 33) J q= 13,794 J
- 5. Calculate the heat required to raise 0.6 Kg of sand from 30°C to 90°C? (Specific Heat of sand = 830 J/Kg°C) q = mcΔT q = 830 J/KgoC × 0.6 Kg × 60oC q = 29880 J.

Answer Key Heat

Oswaal Editorial Board

Answer Key Heat:

Vol 05: Heat & Thermodynamics: Adaptive Problems Book in Physics for College & High School SATYAM SIR,2021-11-26 This book will cover the following Chapter's Thermal Property of Matter Thermodynamics Kinetic Theory This book contains Basic Math for Physics Vectors Units and Measurements It is divided into several subtopics where it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Questions Chapter wise Test with Level 1 Level 2 Difficulty NCERT BOARD Level Questions for Practice Previous Year Questions JEE Mains Previous Year Questions JEE Advanced Previous Year Questions NEET CBSE More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of guery visit www physicsfactor com or whatsapp to our customer care number 91 7618717227 1500 Science Test Questions/Answers Dennis Arden Hooker, 2025-01-01 1500 Science Test Questions w Keys Answers Statistical Analysis For Science Teachers Upper Elementary to College Dr Hooker researched and developed a book of 1500 Science Test Questions together with the Bloom's Taxonomy Discrimination Index the Key etc The book was funded through the National Science Foundation for teachers of Upper Middle School through College Science Programs 1500 Science Test Questions is an excellent tool for teachers to develop their own tests and for students to study for High School and College JEE Main Chapter Wise Numerical Response Questions with Solution for Physics By Career Point Kota proficiency exams Career Point Kota, 2020-07-21 Whenever a student decides to prepare for any examination her his first and foremost curiosity is about the type of questions that he she has to face We feel great pleasure to present this book before you We have made an attempt to provide Chapter wise Numerical Response Questions for IEE Main as per NTA latest pattern with answer and solutions to majority of questions Solutions to the questions are not just sketch rather have been written in such a manner that the students will be able to understand the application of concept and can answer some other related questions too We firmly believe that the book in this form will definitely help a genuine hardworking student We have tried our best to keep errors out of this book Comment and criticism from readers will be highly appreciated and incorporated in the subsequent edition We wish to utilize the opportunity to place on record our special thanks to all team members of Content Development for their efforts to make this wonderful book Best Wishes Career Point Growing with Science and Health 2 Teacher's Manual1st Ed. 1997, Health Information Processing. Evaluation Track Papers Yanchun Zhang, Oingcai

Chen,Hongfei Lin,Lei Liu,Xiangwen Liao,Buzhou Tang,Tianyong Hao,Zhengxing Huang,Jianbo Lei,Zuofeng Li,Hui Zong,2025-05-14 This book constitutes the refereed proceedings of the 10th China Health Information Processing Conference CHIP 2024 held in Fuzhou China November 15 17 2024 The CHIP 2024 Evaluation Track proceedings include 19 full papers which were carefully reviewed and grouped into these topical sections syndrome differentiation thought in Traditional Chinese Medicine lymphoma information extraction and automatic coding and typical case diagnosis consistency

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Decoding **Answer Key Heat**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answer Key Heat**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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