

Unit 3 Worksheet 4 – Quantitative Energy Problems Part 2

Energy constants (H₂O)

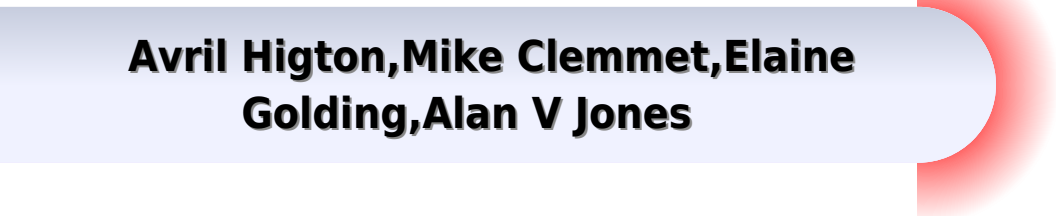
334 J/g	Heat of fusion (melting or freezing) H_f
2260 J/g	Heat of vaporization (evaporating or condensing) H_v
2.1 J/g°C	Heat capacity (c) of solid water
4.18 J/g°C	Heat capacity (c) of liquid water

For each of the problems sketch a warming or cooling curve to help you decide which equation(s) to use to solve the problem. Keep a reasonable number of sig figs in your answers.

1. How much energy must be absorbed by a 150 g sample of ice at 0.0 °C that melts and then warms to 25.0°C?
2. Suppose in the Icy Hot lab that the burner transfers 325 kJ of energy to 450 g of liquid water at 20.°C. What mass of the water would be boiled away?
3. A 12oz can of soft drink (assume $m = 340$ g) at 25°C is placed in a freezer where the temperature is - 12 °C. How much energy must be removed from the soft drink for it to reach this temperature?

Unit 3 4 Quantitative Energy Problems Answers

**Avril Higton, Mike Clemmet, Elaine
Golding, Alan V Jones**



Unit 3 4 Quantitative Energy Problems Answers:

Access to Chemistry Avril Higton, Mike Clemmet, Elaine Golding, Alan V Jones, 2007-10-31 This text has been specifically designed to prepare people with previously limited chemical knowledge for entrance into science related courses such as Foundation and Access courses which involve chemistry in higher education Until now there have been no texts available for use on these courses and this book fills that gap Access to Chemistry effectively forms a self study course which is split into separate modules and units covering the full spread of concepts required for those needing a basic knowledge of chemistry The material is presented in a friendly and easy to use manner which allows the student to pace their acquisition of knowledge and gain increasing confidence in order to succeed in understanding essential relevant concepts Other useful features of this book include starter diagnostic tests worked examples and self study tests with answers at the end of each unit In addition to Access or Foundation course students and their tutors to whom this book will prove essential it will have an appeal also as a revision text for those needing a refresher after a break in the subject In addition it will be of interest to members of the general public who wish to better educate themselves on chemical matters as it provides a clear and useful insight into areas such as health home chemicals business market trends and gardening [Oswaal Government Exams](#)

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Quantitative Reasoning in the Context of Energy and Environment Robert Mayes, James Myers, 2015-01-19 This book

provides professional development leaders and teachers with a framework for integrating authentic real world performance tasks into science technology engineering and mathematics STEM classrooms We incorporate elements of problem based learning to engage students around grand challenges in energy and environment place based leaning to motivate students by relating the problem to their community and Understanding by Design to ensure that understanding key concepts in STEM is the outcome Our framework has as a basic tenet interdisciplinary STEM approaches to studying real world problems We invited professional learning communities of science and mathematics teachers to bring multiple lenses to the study of these problems including the sciences of biology chemistry earth systems and physics technology through data collection tools and computational science modeling approaches engineering design around how to collect data and mathematics through quantitative reasoning Our goal was to have teachers create opportunities for their students to engage in real world problems impacting their place problems that could be related to STEM grand challenges demonstrating the importance and utility of STEM We want to broaden the participation of students in STEM which both increases the future STEM workforce providing our next generation of scientists technologists engineers and mathematicians as well as producing a STEM literate citizenry that can make informed decisions about grand challenges that will be facing their generation While we provide a specific example of an interdisciplinary STEM module we hope to do more than provide a single fish Rather we hope to teach you how to fish so you can create modules that will excite your students

Resources in Education ,1996-05

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Catalogue, United States Public Documents ,1981-07

The Quantum in Chemistry Roger Grinter,2005-12-17 This book explores the way in which quantum theory has become central to our understanding of the behaviour of atoms and molecules It looks at the way in which this underlies so many of the experimental measurements we make how we interpret those experiments and the language which we use to describe our results It attempts to provide an account of the quantum theory and some of its applications to chemistry This book is for researchers working on experimental aspects of chemistry and the allied sciences at all levels from advanced undergraduates to experienced research project leaders wishing to improve by self study or in small research orientated groups their understanding of the ways in which quantum mechanics can be applied to their problems The book also aims to provide useful background material for teachers of quantum mechanics courses and their students

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