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information and
procedures for the
experiments you
will perform as part
of your General
Chemistry II course
- CHE1402. Along
with concepts and

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chemistry covered in the lecture, the laboratory portion of the course will present some additional chemistry, both theoretical and practical (e.g. water analysis).

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Safety in the Chemistry 2

Laboratories A-19

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Practices A-19 1.

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Follow Instructions

3. Safety

Equipment 4.

Practice Good

Housekeeping 5.

Avoid Chemical

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Contamination
Personal Protective
Equipment (PPE)

A-21 1. Dress Code
2. Goggles 3. Lab
Coat 4. Gloves

Maps and
Emergency
Evacuation

Procedures A-23 1

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2. You have to wear a LAB COAT and safety goggles and also have a lab manual and calculator while performing experiments in the laboratory. Without them you are not allowed to enter the lab section. Safety goggles will be given by your

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assistants. 3. Read the lab experiments and any suggested additional reading(s), before coming to lab. 4.

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3. Safety

Equipment 4.

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a safe place in
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Welcome to IARE
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Physical Chemistry,
Year 2 ____ From
equation (2), $l = g$,
therefore Equation
(7) would than be .
(8) Substituting (8)
into equation (6),
we can obtain .. (9)
g Equation (9) is

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also known as the Clapeyron equation. It can be applied to any equilibrium between two phases, such as the process of melting or evaporation.

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Acknowledgments
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Khalida Jaffar and

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Dr. Khalid Omer. It was used in the academic year, 2012-2013.

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C H E M I S T R Y I I
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II. Safety in the
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Chemistry is a laboratory science and a science of change. In the lab, you will make chemistry happen. However, many chemicals are potentially hazardous if handled improperly.

CHEM1120 labman

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each experiment)
for collecting data,
and completing the
prelaboratory
assignment. 3.

Record your results
immediately and
directly into your
notebook. Record
observations

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published by
Edward Arnold in
1967 and revised
for a second
edition in 1972. It
was written to
provide guidance
and instructions for
a very wide range
of practical
activities that
might be carried
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course, and then only with the supervisors consent. • Any student deemed dangerously incompetent or intoxicated will be required to leave the laboratory.

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PREFACE Most students who take freshman chemistry are not planning for a career in this discipline. As a result, the introductory chemistry course usually serves

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several functions at various levels. It begins the training process for those who seek to become chemists.

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important issues

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that must be understood prior to getting started.

This is followed by detailed step-by-step procedures for performing the experiments.

Students report specific results in sections designated for data, observations, and calculations.

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Once each experiment is completed, analysis questions test students' comprehension of the results.

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Students using this
manual will gain a
greater
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principles and the
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questions
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of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. In addition, each experiment has a link to a set of references and helpful online

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