



ATENEO DE DAVAO HIGH SCHOOL
Matina, Davao city

INTEGRATED SCIENCE
SCOPE AND SEQUENCE

FIRST QUARTER
S.Y. 2013-2014

UNIT 1: SCIENTIFIC METHOD

Content Standard:

The learner demonstrates understanding on scientific method

Performance Standard:

Learners perform in groups at least one teacher-guided community-based investigation using scientific method

Performance Task:

Conduct of a teacher-guided community-based science investigation using scientific methods
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Topics:

Science and Technology: The Nature of Science
Lab Orientation and Lab safety Symbols
Lab tools and Equipment
Common Lab Operations
Scientific Values & Scientists and their contributions to science
Precision and Accuracy
Units of Physical Quantities
Significant Figures in Measurement
Significant Figures- Rules in Mathematical Operations
Scientific Notation in Measurement
Scientific Notation in Measurement-Rules in Mathematical Operations
Conversion of Units in Measurement (SI-SI)
Conversion of Units in Measurement (SI – English vice-versa)
Measuring Basic Units
Measuring Mass, Length and Volume
Other Essential Measurements (Lab Testing: measuring pH)
Other Essential Measurements (Lab Testing: Salinity, Solubility and Density)
The Scientific Inquiry and Parts of the Scientific Method
Qualitative and Quantitative Observations
Making Inferences
Inductive and Deductive Reasoning
Identifying Variables: Dependent, Independent and Control Variables
Identifying the Problem: Stating the Problem using variables
Formulating Hypothesis and Writing Hypothesis using variables
Writing Problems and Hypothesis using variables
Identifying the Problem and Stating Problems using variables
Making and Testing Experimental Design
Organizing Data

Interpreting data and Making conclusions
Parts of a Research Paper: Parts of a Scientific Investigatory Project
Writing Investigatory Project

Textbook: I-Science by Glencoe - McGraw Hill, Pheonix Publishing House

References:

1. You and the Natural World- Integrated Science; L. Vengco, T. Religioso
Dynamic Science by Rabago, L. et al
2. General Science Laboratory Manual and Workbook
3. Exploring Science by CDIS
4. Glencoe: General Science
5. Glencoe: Physical Science
6. Prentice Hall: The Nature of Science

Checked by:

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