

## STUDY GUIDE FOR MODULE NO. 1

## INTRODUCTION TO SCIENCE, TECHNOLOGY, AND SOCIETY



## MODULE OVERVIEW

This section introduces Science, Technology, and Society (STS) as a field of study. After defining science and technology, the section traces the historical roots of STS as an academic field. It also enumerates emerging ethical dilemmas that reinforce the importance of the study of STS in an age of scientific progress and technological development.



## MODULE LEARNING OBJECTIVES

At the end of this Module, you should be able to:

1. explain the scope of the study of STS; and
2. demonstrate preparedness and readiness in the study of STS.



## LEARNING ACTIVITY 1

## Diagnostics

Before continuing on this Module, let us have a short diagnostic test to determine your ideas regarding science and technology. For the following items, write **TRUE** if you feel that the statement is correct and **FALSE** if the statement is not.

1. Technology is the application of science.
2. Scientific theories are much less valid than scientific laws.
3. Science and technology has potentially negative societal impacts.
4. STS is a multidisciplinary study and draws heavily on the social sciences.
5. Science mainly concerns on the acquisition and production of knowledge from the natural world.
6. Though the knowledge generated by STS is important, it has little bearing on government policy-making.
7. The study of STS is important for both the natural science community and the social science community.
8. The domain of science requires skills such as critical thinking and problem-solving but less on creativity and imagination.
9. When we try to look into how various social factors affect the development of science and how developments in science affect human society, we are delving into the STS territory.
10. STS deals mostly with historical developments of science and technology and its impact to society and less with the philosophical implications of these developments.

Once you finish this Module, revisit this activity and answer it again. Did any of your ideas regarding science, technology, and society change?



## GENERAL CONCEPTS RELATED TO SCIENCE, TECHNOLOGY, AND SOCIETY

Science and technology innovations are prevalent in our society. It permeates our everyday activities, as well as the tools that we use, from the most simple to the most complex. In order for you to completely grasp the impact of science and technology to our society, it is necessary to study some concepts related to science and technology.

## What is Science?

You have taken up science subjects since primary school years, and the definition of science has been repeatedly discussed since then. To give you a recall, Science comes from the Latin word *scientia*, meaning 'knowledge'. It refers to a systematic and methodical activity of building and organizing knowledge about how the universe behaves through observation, experimentation or both. Let's discuss the nature of science below for you to understand it better.

# Sts Study Guide

**Thomas Williams Bicknell, Albert  
Edward Winship, Anson Wood Belding**

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*New England Journal of Education* Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1904

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**Official Program and Guide of the National Educational Association**, 1898

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*Real Estate Record and Builders' Guide*, 1890

**Guide to America; a Treasury of Information about Its States, Cities, Parks, and Historical Points of Interest**, 1947

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*Technology and Society Courses at the College Level* Ernest M. Hawk, 1976

*The Historical World's Columbian Exposition and Chicago Guide ...* Horace Hills Morgan, 1892

**Principles of Financial and Managerial Accounting** Carl S. Warren, Philip E. Fess, 1986

**The Guide to Nature** Edward Fuller Bigelow, 1911

*Science, Technology and Society*, 1996

**Resources in Education**, 1984

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