

**Switched-On Schoolhouse
Middle School
Scope & Sequence
With
Course Descriptions**

Switched-On Schoolhouse® 2.0 Bible

Switched-On Schoolhouse® Bible is a comprehensive, basic curriculum for grades 3-12, providing a developmental and in-depth academic study of the teachings of the Old and New Testaments. Utilizing the King James Version and the New American Standard Bible, the Bible curriculum covers a variety of biblical material in order to assist students in the development of a Christian life-view and the integration of this view into academic studies and practical living.

Doctrine

The Bible curriculum fits broadly within an “evangelical Protestant” position as reflected in the AOP Statement of Faith.

- The Bible is inspired, inerrant, and completely authoritative.
- There is only one God who is sovereign, eternal, and existing in three persons.
- God is the creator and sustainer of the universe and the earth.
- Man was created as good, unique, and in the image of God.
- Original sin made humanity sinful and in need of salvation.
- Jesus Christ is God’s Son, virgin born, fully God and fully man.
- Christ’s death on the cross is the only substitutionary atonement for sin.
- Salvation is by grace alone, through faith alone, in Christ alone.
- Christ will personally and bodily return to the earth a second time.
- Heaven and Hell are eternal places with real occupants.

These doctrines provide the basic structure to express the truths that are fundamental to Christianity. While allowing controversial and denominational doctrines to be taught and applied by parents, teachers, and pastors, the SOS Bible curriculum focuses on the strands listed in the following section.

Strands

The curriculum provides seven major themes that are covered in most grade levels. In the elementary grades, it offers a complete survey of the Bible, weaving many of the major themes together within units. At the secondary level, it emphasizes a more thorough survey of the Old and New Testaments, often treating each of the major themes more discretely. The SOS Bible strands are as follows:

- **Theology-** important subjects, such as Christ, sin, salvation, and prayer
- **Attributes of God-** facets of God’s identity and nature
- **Biblical Literature-** the literary value of Psalms, Proverbs, and other books of the Bible
- **Biblical Background-** geography, customs, archeology, and other relevant background information from Biblical times
- **Christian Growth-** the awareness of God and self, leading to victorious living and service
- **Christian Evidences-** the equipping of Christians for temporal and eternal life
- **Special Topics-** unique studies spread throughout the grade levels, including topics like comparative religions, family, friendships, dating, and ethics

As the program targets these strands, it also teaches study methods for properly interpreting and understanding the Scriptures, giving students hands-on experience with some of the major books of the Old and New Testaments.

Approach to Instruction

SOS Bible course materials are designed in a reading-based instructional format intended to facilitate guided, independent progress of the average student. Assignments appear within a unit structure and integrate instructional text and multimedia for engaging presentation. The structure and sequence of materials in each unit, guided by principles of mastery learning, work together with the power of SOS automation and administration to promote opportunities for student academic growth and self-discipline.

Teachers can use the instructional content of SOS Bible as a flexible learning base on which to develop, direct, and individualize the learning environment. Teachers can benefit from the automated content-delivery and grading features by letting the program handle time-consuming tasks that often prevent them from creating a personalized

learning experience for their students. The time saved can be used to target and support individual student needs directly.

Approach to Assessment

SOS Bible is a program designed around principles of mastery learning. Lessons for each of the ten units contain instruction and activities that target unit learning-goals. Quizzes reinforce those goals, acting as checkpoints teachers will find helpful in preparing students for each cumulative unit mastery test.

Most assignment problems (about 90%) are computer-graded to provide students with immediate feedback. As teachers review completed student work, they can, if needed, manually override computer-generated scores or send problems back to be reworked. Additionally, teacher-graded questions and writing projects provide opportunities and context for teachers to assist, support, and challenge students. Program settings that establish grading scale and assignment weighting serve as additional tools which teachers can use to meet the unique needs of individuals and classrooms.

Bible 600

Course Overview

Bible 600 continues to provide a developmental and in-depth academic study of the teachings of the Old and New Testaments. It focuses on a brief survey of the Old and New Testaments, with special emphasis upon the key people, places, and events from the book of Genesis to the book of Revelation. These areas target three content strands: theology, biblical literature, and biblical background.

Upon completion of the course, students should be able to:

- Present an overview of the biblical story from Genesis to Revelation
- Identify key people, places, and events in the Old and New Testaments
- Discuss the primary eras in the history of Israel and the Church
- Appreciate the importance of Israel and the Kingdom in the Old Testament
- Appreciate the importance of the Church in the New Testament
- Demonstrate the influence of the Old Testament in the New Testament
- Explain important themes and teachings throughout the Bible

Unit Overview

Unit 1: From Creation to Moses

8 Lessons, 2 Projects, 3 Quizzes, 1 Test

- Creation
- The Flood
- Abraham and His Descendants
- Moses and the Law

Unit 2: From Joshua to Ruth

5 Lessons, 1 Project, 3 Quizzes, 1 Test

- Conquest and Division of the Land
- The Death of Joshua
- The Judges of Israel
- Ruth, Naomi, and Boaz

Unit 3: The Kingdom of Israel

7 Lessons, 2 Projects, 3 Quizzes, 1 Test

- Samuel and Saul
- The Reign of David
- The Reign of Solomon
- The Books of Poetry

Unit 4: The Divided Kingdom

9 Lessons, 1 Project, 4 Quizzes, 1 Test

- From Jeroboam to Captivity
- Prophets of Judah and Israel
- From Hezekiah to Captivity
- The Prophets of the Remaining Kingdom

Unit 5: Captivity and Restoration

9 Lessons, 1 Project, 4 Quizzes, 1 Test

- The Prophets of the Captivity
- The Returns from Exile
- The Prophets of the Restoration

- From Creation to Restoration

Unit 6: The Life of Jesus

12 Lessons, 1 Project, 4 Quizzes, 1 Test

- Birth and Background
- The First Years of Ministry
- The Latter Years of Ministry
- Death and Resurrection

Unit 7: The Followers of Jesus

6 Lessons, 1 Project, 4 Quizzes, 1 Test

- The Disciples of Jesus
- The Friends of Jesus
- The Miracles of Jesus
- The Message of Jesus

Unit 8: The Apostle Paul

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- Paul's Background and Conversion
- Paul's Missionary Journeys

- Paul's Letters to Churches
- Paul's Letters to People

Unit 9: Hebrews and General Epistles

5 Lessons, 2 Projects, 3 Quizzes, 1 Test

- The Book of Hebrews
- James/1 and 2 Peter
- 1, 2, and 3 John
- The Book of Jude

Unit 10: Revelation and Review

9 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Lord Jesus in Revelation
- End-time Events
- Old Testament Review
- New Testament Review

Additional Resources

In addition to the default course program, Bible 600 includes alternate assignments for use in enhancing instruction or addressing individual needs.

Bible Reference List

Although specific Bible verses are given in the assignments, a complete Bible is needed for the Bible curriculum. Other reference tools can assist in the enrichment of lessons and the completion of projects. These references include:

- Bible Dictionary
- Bible Handbook
- Bible Encyclopedia
- Bible Atlas
- Bible Commentary

Bible 700

Course Overview

Bible 700 continues to provide a developmental and in-depth academic study of the teachings of the Old and New Testaments. It focuses on worship, mankind, the attributes of God, prophecies about Christ, the living of balanced lives, and the book of Psalms. Special emphasis is given to the life of Christ from His pre-existence and birth to His resurrection and ascension. These areas target five content strands: theology, the attributes of God, biblical literature, Christian growth, and the life of Christ (a special topic).

Upon completion of the course, students should be able to:

- Understand the design and practice of Christian worship
- Describe the nature and purpose of humanity
- Explain some of the moral attributes of God
- Follow the biblical presentation of Jesus as the Messiah
- Identify the characteristics of a balanced Christian life
- Demonstrate an understanding of the history and design of the book of Psalms
- Present the primary events in the life of Christ

Unit Overview

Unit 1: Worship

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Nature of Worship
- Old Testament Worship
- New Testament Worship
- True Worship

Unit 2: Mankind

6 Lessons, 4 Quizzes, 1 Test

- The Origin of Man
- The Fall of Man
- The Re-creation of Man
- The Mission of Man

Unit 3: The Attributes of God

4 Lessons, 3 Quizzes, 1 Test

- God's Nature of Love
- God's Expression of Love
- The Mercy of God
- The Grace of God

Unit 4: Christian Evidences

4 Lessons, 1 Project, 2 Quizzes, 1 Test

- Method of the First Advent
- Purpose of the First Advent
- The Messiah Foretold
- Fulfillment of the Messiah

Unit 5: Living the Balanced Life

7 Lessons, 4 Quizzes, 1 Test

- The Father's Gift of Life
- Man's Deception
- Fellowship with the Savior
- The Life of the Spirit

Unit 6: The Psalms

7 Lessons, 3 Quizzes, 1 Test

- The History of the Psalms
- Types of Psalms
- Hebrew Poetry
- Psalm 100

Unit 7: The Life of Christ—Part 1

12 Lessons, 4 Quizzes, 1 Test

- The Early Life of Christ
- Christ's Ministry Begins
- The Early Judean Ministry
- The Early Galilean Ministry

Unit 8: The Life of Christ—Part 2

8 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Public Ministry in Galilee
- The Private Ministry in Galilee
- The Judean Ministry
- The Galilean Ministry

Unit 9: The Life of Christ—Part 3

8 Lessons, 3 Quizzes, 1 Test

- The Public Jerusalem Ministry
- The Private Jerusalem Ministry
- The Crucifixion
- The Resurrection

Unit 10: Review

11 Lessons, 5 Quizzes, 1 Test

- The Plan of God
- Man's History
- The Savior's Solution
- Worship of Christ

Additional Resources

In addition to the default course program, Bible 700 includes alternate assignments for use in enhancing instruction or addressing individual needs.

Bible Reference List

Although specific Bible verses are given in the assignments, a complete Bible is needed for the Bible curriculum. Other reference tools can assist in the enrichment of lessons and the completion of projects. These references include:

- Bible Dictionary
- Bible Handbook
- Bible Encyclopedia
- Bible Atlas
- Bible Commentary

Bible 800

Course Overview

Bible 800 continues to provide a developmental and in-depth academic study of the teachings of the Old and New Testaments. It focuses on prayer, salvation, the attributes of God, the book of Proverbs, and interpersonal relationships. Special emphasis is given to a survey of Church history from the early Church through the Reformation. These areas target five content strands: theology, the attributes of God, biblical literature, Christian growth, and Church history (a special topic).

Upon completion of the course, students should be able to:

- Understand the nature and use of prayer
- Explain the relationship of sin and salvation in the Gospel message
- Describe various attributes that belong to God
- Identify key people, places, and events in Church history
- Describe the deterioration of the Church in the Middle Ages
- Explain the design and message of the book of Proverbs
- Pursue biblical truths in the development of relationships
- Explain the relationship between parents and children

Unit Overview

Unit 1: Prayer

9 Lessons, 2 Quizzes, 1 Test

- Organization of the Lord's Prayer
- Purpose of the Lord's Prayer
- History of Prayer
- Practical Use of Prayer

Unit 2: Sin and Salvation

7 Lessons, 3 Quizzes, 1 Test

- The Nature of Sin
- The Need for Salvation
- How to Receive Salvation
- The Results of Salvation

Unit 3: Attributes of God

8 Lessons, 4 Quizzes, 1 Test

- God's Justice
- God's Immutability
- God's Eternal Nature
- God's Love

Unit 4: Early Church Leaders

8 Lessons, 3 Quizzes, 1 Test

- The Early Church
- The Church of the Middle Ages
- The Renaissance
- The Reformation

Unit 5: Early Church History

12 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Roman Empire
- The Background of the Jews
- The Ministry of Jesus
- The Jerusalem Church

Unit 6: The Early Churches

11 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Church at Antioch
- The Missionary Journeys
- The Jerusalem Conference
- New Testament Churches

Unit 7: The Book of Proverbs

9 Lessons, 3 Quizzes, 1 Test

- Literary Forms and Outline
- Objectives and Purposes
- Influence on the New Testament
- Key Themes

Unit 8: Choices

8 Lessons, 3 Quizzes, 1 Test

- Guidance for Behavior
- Characteristics of Friendship
- Studying Effectively
- Finding God's Will

Unit 9: Understanding the Family
9 Lessons, 3 Quizzes, 1 Test

- Human Parents
- Biblical Parents
- Children’s Responsibilities
- Parents and Children as a Team

Unit 10: Review
10 Lessons, 1 Project, 4 Quizzes, 1 Test

- Prayer and Salvation
- The Attributes of God
- The Early Church Leaders
- Christian Living

Additional Resources

In addition to the default course program, Bible 800 includes alternate assignments for use in enhancing instruction or addressing individual needs.

Bible Reference List

Although specific Bible verses are given in the assignments, a complete Bible is needed for the Bible curriculum. Other reference tools can assist in the enrichment of lessons and the completion of projects. These references include:

- Bible Dictionary
- Bible Handbook
- Bible Encyclopedia
- Bible Atlas
- Bible Commentary

Switched-On Schoolhouse® 2.0
History and Geography

Switched-On Schoolhouse® History and Geography is a comprehensive, basic curriculum for grades 3-12, presenting instruction in a reading-based format and utilizing a combination of on- and off-computer assignments and activities. The program’s goal is to develop in students an understanding of and appreciation for God’s activity as seen in the record of man and his relationships. It targets this goal by focusing on the following content strands:

Geography

- **World Geography**— World Geography focuses on geographic distinctives around the globe, including geographical and climatic impacts on world social groups.
- **American Geography**— American Geography focuses on geographic distinctives and impacts in America.

History

- **World History**— World History traces the development of civilizations, emphasizing key historical personalities and cultural distinctives.
- **American History**— American History traces the development of American civilization, emphasizing key historical personalities and cultural distinctives.
- **History of Religion**— This strand explores historical and present-day religious groups, with a particular emphasis on Christianity.

Government and Citizenship

Government and Citizenship explores the impact of historical and modern governmental systems and peoples’ cultural relationships.

Economics

Economics explores the history of economic systems, focusing on contemporary capitalism.

Social Studies Skills

SOS History and Geography includes instruction on map reading, research skills, and the historical method.

Special Topics

- **Career Preparation**— History and Geography 900 includes lessons that focus on preparing for careers, choosing careers, and interviewing for jobs.
- **Financial Management**— History and Geography 1200 includes lessons that cover personal finance; college grants and loans; and banking and investments.

Multimedia Resources

The SOS History and Geography program provides a variety of multimedia resources (audio, video, and animation presentations) to help students understand abstract concepts. Ideas, such as economic inflation or the separation of powers in the U.S. federal government, are illustrated in ways that text cannot convey.

In addition, the use of primary (original) sources in history (photos, videos, and recordings) serves as a valuable means of introducing students to actual historical documents, speeches, etc. This enables students to “view” not only historical events in context but also other primary sources, like, diaries, letters, and memoirs. As a result, students may more effectively see how historical events impact human beings, helping students make direct connections with history’s cast of characters.

Approach to Instruction

SOS History and Geography course materials are designed in a reading-based instructional format intended to facilitate guided, independent progress of the average student. Assignments appear within a unit structure and integrate instructional text and multimedia for engaging presentation. The structure and sequence of materials in each unit, guided by principles of mastery learning, work together with the power of SOS automation and administration to promote opportunities for student academic growth and self-discipline.

Teachers can use the instructional content of SOS History and Geography as a flexible learning base on which to develop, direct, and individualize the learning environment. Teachers can benefit from the automated content-delivery and grading features by letting the program handle time-consuming tasks that often prevent them from creating a personalized learning experience for their students. The time saved can be used to target and support individual student needs directly.

Approach to Assessment

SOS History and Geography is a program designed around principles of mastery learning. Lessons for each of the ten units contain instruction and activities that target unit learning-goals. Quizzes reinforce those goals, acting as checkpoints teachers will find helpful in preparing students for each cumulative unit mastery test.

Most assignment problems (about 90%) are computer-graded to provide students with immediate feedback. As teachers review completed student work, they can, if needed, manually override computer-generated scores or send problems back to be reworked. Additionally, teacher-graded questions and writing projects provide opportunities and context for teachers to assist, support, and challenge students. Program settings that establish grading scale and assignment weighting serve as additional tools which teachers can use to meet the unique needs of individuals and classrooms.

History and Geography 600

Course Overview

History and Geography 600 continues the process of developing in students an understanding of and appreciation for God’s activity as seen in the record of man and his relationships. The course focuses on World History, with an emphasis on Western Europe. Specifically, it covers World History from ancient civilizations through the end of the 20th century, highlighting early Christianity (through the Reformation) and the two World Wars. These areas of focus target three major content strands: History, Geography, and Social Studies Skills.

Upon completion of the course, students should be able to:

- understand the world in spatial terms (according to hemispheres, latitude and longitude, maps, and time zones)
- understand how cultures differ in each of the hemispheres studied
- understand Western civilization from its beginnings to the end of the Renaissance
- understand the significant religious, cultural, and scientific events in Europe during the Renaissance
- identify cultural and geographic differences between the South American countries studied
- identify cultural and geographic differences between the African countries studied
- identify key causes, events, and leaders of the two World Wars
- understand the history, culture, and politics of Eastern European countries

Additionally, students will gain practice in report-writing, covering topics like North American geography, the Crusades, the influence of the Renaissance, the Industrial Revolution, and more.

Unit Overview

Unit 1: World Geography

8 Lessons, 1 Project, 3 Quizzes, 1 Test

- Mapping the Earth—Latitude and Longitude
- The Western Hemisphere—North and South America
- The Eastern Hemisphere—Europe, Asia, and Africa
- The Southern Hemisphere—Australia and Antarctica

Unit 2: The Cradle of Civilization

6 Lessons, 3 Quizzes, 1 Test

- Mesopotamia
- Israel
- Egypt

Unit 3: The Civilizations of Greece and Rome

6 Lessons, 3 Quizzes, 1 Test

- Greece—City-States, Wars, and Contributions
- Rome—Way of Life, Christianity, Contributions, and Decline

Unit 4: Life in the Middle Ages

7 Lessons, 1 Project, 7 Quizzes, 1 Test

- The Feudal System
- The Daily Life
- Islam
- The Crusades

Unit 5: Six South American Countries

8 Lessons, 1 Project, 3 Quizzes, 1 Test

- A Survey of Brazil, Colombia, Venezuela, Guyana, Suriname, and French Guiana, with Information on:
 - Geography
 - People
 - History
 - Today and Tomorrow

Unit 6: Seven South American Countries

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- A Survey of Ecuador, Peru, Bolivia, Uruguay, Paraguay, Argentina, and Chile, with Information on:
 - Geography
 - People
 - History
 - Today and Tomorrow

Unit 7: Africa

5 Lessons, 1 Project, 3 Quizzes, 1 Test

- A Survey of Africa, with Information on:
 - History
 - Geography
 - People
 - Civilizations and Cultures

Unit 8: Western Europe

6 Lessons, 2 Projects, 3 Quizzes, 1 Test

- The Renaissance
- The Industrial Revolution
- World War I

- World War II

Unit 10: Development of Our World

Unit 9: Eastern Europe

10 Lessons, 4 Quizzes, 1 Test

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Byzantine Empire
- North and Central European Countries
- Balkan Countries
- Communism

- The Cradle of Civilization
- Greece and Rome
- The Middle Ages
- Western and Eastern Europe
- South America
- Africa

Additional Resources

In addition to the default course program, History and Geography 600 includes alternate lessons, projects, essays, and tests for use in enhancing instruction or addressing individual needs.

History and Geography 700

Course Overview

History and Geography 700 continues the process of developing in students an understanding of and appreciation for God’s activity as seen in the record of man and his relationships. The course surveys the social sciences, covering history, geography, anthropology, sociology, economics, and political science. These areas of focus target all five major content strands: History, Geography, Government and Citizenship, Economics, and Social Studies Skills.

Upon completion of the course, students should be able to:

- understand the historical method
- understand the world in spatial terms (according to latitude and longitude, maps, time zones, and Daylight Saving Time)
- locate and describe different topographical features of the world, such as plains, mountainous regions, rivers, and valleys
- locate and describe U.S. regions made up of various groups of states, such as the Northeast and the Midwest
- understand the meaning, methods, and goals of anthropology
- understand the meaning, methods, and goals of sociology
- understand the anthropology and sociology of the United States, especially of Native Americans
- know the characteristics of major economic systems—free enterprise and socialism—and the role that government plays in each one
- know how to manage money wisely, using a budget
- understand and describe contributions made to the area of political science by various political thinkers
- understand the structure and functions of American government and economics at the state level

Additionally, students will gain practice in report-writing, covering topics like topographies of home states, underdeveloped nations, modern political issues, and more.

Unit Overview

Unit 1: What Is History?

7 Lessons, 3 Quizzes, 1 Test

- The Definition of History
- The Significance of History
- The Historical Method

Unit 2: What Is Geography?

9 Lessons, 3 Quizzes, 1 Test

- Classes of Geography
- The Relief of the Earth

Unit 3: The United States

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- Geography of the United States by Region
- Culture of the United States by Region

Unit 4: Anthropology—The Study of Mankind

8 Lessons, 3 Quizzes, 1 Test

- History of Anthropology
- Goals of Anthropologists
- Methods of Anthropology
- Anthropology of Specific Groups

Unit 5: Sociology—Man in Groups

5 Lessons, 2 Quizzes, 1 Test

- History of Sociology
- Goals of Sociologists
- Methods of Sociology
- Sociology of Specific Groups

Unit 6: Anthropology and Sociology of the United States

8 Lessons, 1 Project, 3 Quizzes, 1 Test

- Native Americans
- Sociology and Culture Groups from Other Lands
- Cultural and Social Interaction

Unit 7: Economics—Resources and Needs

6 Lessons, 2 Projects, 3 Quizzes, 1 Test

- Types of Economic Systems
- Types of Economic Resources
- Methods and Tools of the Economist

Unit 8: Political Science

6 Lessons, 3 Projects, 3 Quizzes, 1 Test

- History of Political Science
- Methods of Political Science
- Goals of Political Science

Unit 9: Economics and Politics of a State

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- Branches of State Government
- State Finances
- Political Party Systems
- Communism

Unit 10: Social Sciences Review

12 Lessons, 3 Quizzes, 1 Test

- The Meaning of History and the Historical Method
- Geography of the Earth
- Geography and Early History of the United States
- The Disciplines of Anthropology and Sociology
- The Disciplines of Economics and Politics
- Economics and Politics of a State

Additional Resources

In addition to the default course program, History and Geography 700 includes alternate lessons, projects, essays, and tests for use in enhancing instruction or addressing individual needs.

History and Geography 800

Course Overview

History and Geography 800 continues the process of developing in students an understanding of and appreciation for God's activity as seen in the record of man and his relationships. The course focuses on American History, covering

American History from early exploration through the present day, with special emphasis given to the Civil War and inventions and technology of the 19th and early 20th centuries. These areas of focus target three major content strands: History, Geography, and Government and Citizenship.

Upon completion of the course, students should be able to:

- identify significant explorers, such as Christopher Columbus, Francisco Coronado, Sir Francis Drake, Ferdinand Magellan, Henry Hudson, Jacques Cartier, and Samuel de Champlain, noting their accomplishments
- understand how conflict between the American colonies and Great Britain led to American independence
- understand political, economic, and social changes that occurred in the United States during the 19th century, including changes resulting from the Industrial Revolution, and explain how these changes led to:
 - movement into the western frontier
 - conflict among sections of the United States
- describe the causes and effects of the Civil War and its aftermath
- describe the causes and effects of both World Wars
- understand some of the key challenges facing American society in the late 20th and early 21st centuries

Additionally, students will gain practice in report-writing, covering topics like the thirteen colonies, the U.S. Constitution, the Civil War, inventors, and more.

Unit Overview

Unit 1: European Backgrounds

8 Lessons, 1 Project, 3 Quizzes, 1 Test

- European Backgrounds
- Spanish, English, and Dutch Explorers
- French Trading Interests

Unit 2: The Colonization of America

14 Lessons, 1 Project, 3 Quizzes, 1 Test

- The First Colonies
- Life in the Colonies

Unit 3: War for Independence

12 Lessons, 1 Project, 3 Quizzes, 1 Test

- England's Colonial Politics
- The Conflict with Britain
- The War for Independence

Unit 4: The Emergence of a Nation

9 Lessons, 3 Projects, 3 Quizzes, 1 Test

- The Birth of the United States
- The U.S. Constitution

Unit 5: The Westward Movement

14 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Industrial Revolution and Inventions

- Improvements in Communication and Transportation
- Jacksonian Policies
- Challenges in the West

Unit 6: The Civil War

13 Lessons, 3 Projects, 3 Quizzes, 1 Test

- Events Leading to the Civil War
- Focus on Specific Battles
- Reconstruction

Unit 7: The Industrial Nation

11 Lessons, 3 Projects, 3 Quizzes, 1 Test

- The European Background of Industry
- Early Industry in the United States
- Growth of Corporations and Labor Unions

Unit 8: Twentieth Century World Power

12 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Spanish-American War
- Causes and Effects of World War I
- The Great Depression

Unit 9: The United States in a Changing World

18 Lessons, 3 Quizzes, 1 Test

- Causes and Effects of World War II

- The Korean War
- The Vietnam War
- Challenges of the Late 20th and Early 21st Centuries

- The New World—Exploration and Growth
- Freedom for a New Nation
- The Civil War
- Growth as a World Power

Unit 10: American History Review
14 Lessons, 3 Quizzes, 1 Test

Additional Resources

In addition to the default course program, History and Geography 800 includes alternate lessons, projects, essays, and tests for use in enhancing instruction or addressing individual needs.

State History Courses

Course Overview

Switched-On Schoolhouse[®] (SOS) State History courses continue the process of developing in students an understanding of and appreciation for God’s activity as seen in the record of man and his relationships. Each State History course focuses on a single state, using a topical approach and surveying the state’s geography, history, culture, government, economy, and citizenship.

SOS presents each course either in a one-semester, five-unit format or a one-semester, one-unit format.

The Five-Unit Courses

The twenty-five states offered in the one-semester, five-unit format are:

Alabama, Arkansas, Arizona, California, Colorado, Florida, Georgia, Illinois, Indiana, Kansas, Kentucky, Maryland, Michigan, Missouri, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Washington, and Wisconsin

Upon completion of a five-unit State History course, students should be able to:

- describe the geography of the state, including major landforms and waterways
- identify significant individuals from the state as well as their contributions to society
- understand the state’s involvement in the Civil War (if involved)
- understand the three main branches of the state government and the roles of each branch
- identify current political leaders from the state
- identify significant industries with a presence in the state
- understand how business and industry, tourism, and culture all contribute to the economic strength of the state
- understand the Christian heritage of the state, including identifying religious groups who have had a significant influence in the state
- understand the rights and responsibilities of citizenship in the state

Additionally, students will gain practice in report-writing, covering topics like state capitals, important state figures, trips through different states, Christian heritage in the states, and more.

Five-Unit Overview

Unit 1: Introduction to the State

8 Lessons, 1 Project, 2 Quizzes, 1 Test

- Introduction to the State
- Geography of the State
- Culture of the State

Unit 2: History and Culture

8 Lessons, 2 Projects, 2 Quizzes, 1 Test

- Historical and Literary Figures
- Timeline of Events
- Civil War

Unit 3: Government

8 Lessons, 2 Quizzes, 1 Test

- Introduction to the State's Government
- Branches of the State's Government
- Legislative Terms

Unit 4: Economy

8 Lessons, 2 Projects, 2 Quizzes, 1 Test

- The State's Economic Strengths
- The State's Commercial Strengths

Unit 5: Citizenship

8 Lessons, 2 Projects, 2 Quizzes, 1 Test

- Christian Heritage in the State
- Rights of State Citizenship
- Responsibilities of State Citizenship

Additional Resources

In addition to the default five-unit program, these twenty-five State History courses include supplementary lessons, projects, and essays for use in enhancing instruction or addressing individual needs.

The One-Unit Courses

The twenty-five states offered in the one-semester, one-unit course format are designed to give students extended practice in research and report-writing. These states are:

Alaska, Connecticut, Delaware, Hawaii, Idaho, Iowa, Louisiana, Maine, Massachusetts, Minnesota, Mississippi, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Dakota, Oregon, Rhode Island, South Dakota, Utah, Vermont, West Virginia, and Wyoming

Upon completion of a one-unit State History course, students should be able to:

- describe the geography of the state, including major landforms and waterways
- explain the governor's role and responsibilities in passing laws
- understand the Christian heritage of the state, identifying religious groups who have had a significant influence in the state
- identify significant individuals from the state as well as their contributions to society
- understand how business and industry, tourism, and culture all contribute to the economic strength of the state
- understand the rights and responsibilities of citizenship in the state

One-Unit Overview

Unit 1: State History

13 Projects

- Geography of the State
- Government of the State
- Historical Events of the State
- Christian Heritage of the State
- People of the State
 - Population
 - Important Historical Figures
- Economy of the State
 - Natural Resources

- Business
- Tourism
- Culture
- Rights and Responsibilities of the Citizens of the State

Additional Resources

In addition to the projects listed in the one-unit overview, these twenty-five State History courses include supplementary projects and essays for use in enhancing instruction or addressing individual needs.

Switched-On Schoolhouse[®] 2.0 Language Arts

Switched-On Schoolhouse[®] Language Arts is a comprehensive, basic curriculum for grades 3-12, focusing on the sequential development and integration of communication skills in reading, writing, listening, and speaking. The program targets these skills by delivering a combination of on- and off-computer assignments using the structure and organization of the LIFEPAAC[®] curriculum framework and the power of SOS automation and administration.

Because SOS Language Arts is an integrated program, the elementary grades (3-6) weave skill topics—reading, writing, listening, speaking—together within units. In the upper grades, the skills are treated more discretely—i.e. unit by unit. The major strands are detailed as follows:

Reading

- **Vocabulary**— In addition to holding students accountable for new words encountered in lesson presentations, the language arts vocabulary program provides topics that expose students to some of the structures and meaning relationships among words. Lower grade topics include parts of speech; syllabication; prefixes, suffixes, and roots; antonyms and synonyms; and dictionary skills. In the upper levels, the topics expand to include etymology, connotation and denotation, varieties of English, and context clues.
- **Comprehension Skills**— SOS Language Arts seeks to help students develop the ability to first effectively read the lines, then between the lines, and finally, beyond the lines. In addition to lessons providing techniques to improve reading, the developmental sequence across the levels includes (1) identifying main ideas and details (what was said), audience (to whom it was said), purpose (why it was said), and occasion (when it was said); (2) analyzing point of view (perspective from which it was said) and technique (how it was said); (3) uncovering implication and inference (what wasn't said); and (4) evaluating and applying (responding to what was heard, viewed, or read).
- **Literature Studies**— In the elementary grades, the language arts program uses literary works to apply basic principles in reading comprehension and to introduce students to general characteristics of literature and major literary categories, such as fiction and nonfiction, poetry and prose. Expanding upon the program's literature base, book-report projects (including book lists) are interspersed across grades 3-8, providing ample opportunity for students to develop their own reading tastes. Upper grades provide instruction intended to equip students to effectively analyze, interpret, and appreciate varieties of literature. Unit topics include literary devices; features of poetry, short stories, novels, and drama; and American and British Literature survey.

Writing

- **Spelling**— Spelling lessons appear in every SOS Language Arts unit from grades 3-8. Instruction and word lists drill and reinforce phonics rules/skills and provide opportunities for application in composition.
- **Penmanship**— Though the SOS Language Arts program does not include handwriting technology, AOP LIFEPAAC[®] Language Arts includes print-based materials that can be integrated with the SOS program.
- **Grammar**— Studies focus on developing students' awareness of the structure of language and the conventions of Standard written English with a view to maturing students' speaking and writing. Grades 3-6 emphasize basic parts of speech and rules of capitalization and punctuation. Grades 7-12 cover sentence structure and variety; basic diagramming; verb forms and types; phrases and clauses; usage; and sentence reduction and expansion.
- **Composition**— In addition to providing opportunities for students to apply principles of grammar and usage in written assignments, SOS Language Arts provides writing instruction across the grade levels. Grades 3-6 focus on techniques of invention, word choice, sentence and paragraph structure, paragraph development (e.g. narration, exposition, description), journal and letter writing, story and poetry writing,

basic research writing, and writing about literature; Upper grades expand to include formal instruction on the five-paragraph composition, the essay, the research paper, literary criticism, speech writing, and creative writing. In addition to instruction in principles of good writing, SOS Language Arts frequently uses writing assignments as a means of application and assessment on a variety of topics.

Most writing assignments appear as individual projects requiring students to use a word processor. Project materials include suggestions for grading and/or rubrics.

Speaking and Listening

Speaking and Listening skills are introduced as vital components of effective communication in grades 3-6, and are taught as specific skills in grades 7-12. Topics include conversational etiquette; note taking; interviewing; and preparing, delivering, and evaluating speeches.

Special Topics

- **Viewing Visual Media**— Upper grade courses (7-12) have been expanded to include instruction on using the Internet, and analyzing and evaluating content of visual media.
- **Nature and History of the English Language**— Taught in both elementary and secondary grades (500, 800, 900, 1000, 1200), this topic guides students into an understanding of the relationship between the English language and the cultures and events that shaped it. Lessons cover basics in etymology, introductory linguistics, anthropology, and sociology.
- **The Bible as Literature**— Language Arts 500 and 600 include lessons that focus on the various literary genres found in the Bible, helping to enrich and inform students' experiences in reading the Bible.
- **Book Reports**— Language Arts 300-800 include book reports. Book lists of specific genres are provided, as are templates for writing the reports.
- **Study and Research Skills**— SOS Language Arts includes instruction on effective practices for note taking; outlining; using visual cues; and evaluating, using, and documenting sources.

Approach to Instruction

SOS Language Arts course materials are designed in a reading-based instructional format intended to facilitate guided, independent progress of the average student. Assignments appear within a unit structure and integrate instructional text and multimedia for engaging presentation. The structure and sequence of materials in each unit, guided by principles of mastery learning, work together with the power of SOS automation and administration to promote opportunities for student academic growth and self-discipline.

Teachers can use the instructional content of SOS Language Arts as a flexible learning base on which to develop, direct, and individualize the learning environment. Teachers can benefit from the automated content-delivery and grading features by letting the program handle time-consuming tasks that often prevent them from creating a personalized learning experience for their students. The time saved can be used to target and support individual student needs directly.

Approach to Assessment

SOS Language Arts is a program designed around principles of mastery learning. Lessons for each of the ten units contain instruction and activities that target unit learning-goals. Quizzes reinforce those goals, acting as checkpoints teachers will find helpful in preparing students for each cumulative unit mastery test.

Most assignment problems (about 90%) are computer-graded to provide students with immediate feedback. As teachers review completed student work, they can, if needed, manually override computer-generated scores or send problems back to be reworked. Additionally, teacher-graded questions and writing projects provide opportunities and context for teachers to assist, support, and challenge students. Program settings that establish grading scale and assignment weighting serve as additional tools which teachers can use to meet the unique needs of individuals and classrooms.

Language Arts 600

Course Overview

Language Arts 600 continues to build on the sequential development and integration of communication skills in four major areas—reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways:

- **Reading-** develops students' reading skills, including the identification of main ideas, supporting details, sequence, and facts and opinions; introduces more advanced reading skills, showing students how to analyze propaganda, make inferences, and determine author's authority; shows students how to identify parts of speech in sentences, with emphasis on kinds and uses of nouns, pronouns, and verb tenses; develops students' capacities for identifying basic elements of narrative prose; enhances students' abilities for reading newspaper articles and informative nonfiction; helps students develop basic literary comprehension skills through the reading of short stories, nonfiction pieces, and poetry.
- **Writing-** develops students' understanding of sentence structure, providing hands-on experience with subject-verb agreement, participles, and phrases; emphasizes parts of speech and their roles, including adjectives, nouns, and verbs; familiarizes students with roots, affixes, and basic word relationships, including homonyms, synonyms, and antonyms; develops students' vocabulary and spelling skills; gives students the opportunity develop their abilities in writing paragraphs, business letters, poetry, and short stories; guides students through planning, organizing, writing, and revising a report.
- **Special Topics-** teaches dictionary skills and comprehension of graphic visual aids; introduces students to Biblical literature topics.

Unit Overview

Unit 1: Elements of Grammar

12 Lessons, 7 Quizzes, 1 Test

Unit 2: Grammar Usage

12 Lessons, 7 Quizzes, 1 Test

Unit 3: Reading Skills

11 Lessons, 6 Quizzes, 1 Test

Unit 4: Writing Skills

9 Lessons, 5 Projects, 5 Quizzes, 1 Test

Unit 5: Newspapers and Propaganda

8 Lessons, 4 Projects, 6 Quizzes, 1 Test

Unit 6: Literary Forms

8 Lessons, 5 Quizzes, 1 Test

Unit 7: Reading for a Purpose

9 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 8: Poetry

14 Lessons, 6 Projects, 7 Quizzes, 1 Test

Unit 9: Bible Literature

10 Lessons, 1 Project, 6 Quizzes, 1 Test

Unit 10: Review

7 Lessons, 2 Projects, 4 Quizzes, 1 Test

Curriculum Contents

Reading Comprehension Skills

- Analyzing Propaganda
- Comparing and Contrasting
- Determining Author's Purpose—Reading for Entertainment and Reading for Information
- Determining Author's Reliability
- Evaluating a Text Based on Biblical Merit

- Identifying Facts and Opinions
- Identifying Main Ideas and Supporting Details
- Finding Implied Meanings
- Reading Newspaper Articles
- Reading Poetry
- Reading Biblical Literature
- Reading Short Stories

Composition

- Paragraph Elements and Structure
- Paraphrasing a Psalm
- Report—on Sheep
- Using Invented Words
- Writing a Business Letter
- Writing Poetry—Pen Pictures, Cinquains, and Shaped Poems
- Writing a Report—Outlining, Writing, and Revising
- Writing with Metaphors
- Writing Short Stories—Plot, Setting, Structure, and Character Development

Grammar and Usage

- Adjectives—Comparative Adjectives, Superlative Adjectives, and Articles
- Adverbs—Comparative Adverbs and Superlative Adverbs
- Interjections
- Kinds of Sentences—Statement, Question, Command, and Surprise/Excitement
- Nouns—Plural, Possessive, and Common and Proper Nouns
- Pronouns—Pronoun Case, Personal Pronouns, and Demonstrative Pronouns
- Punctuation—Exclamation Points, Periods, Question Marks, and Commas
- Sentence Structure—Subject/Predicate, Prepositions, and Phrases
- Verbs—Verb Tense, Irregular Verbs, Auxiliary Verbs, Person, Number, and Compound Verbs

Literature Studies

- Fiction
 - Elements—Structure, Character, Plot, and Setting
 - Genre/Type—Fable, Legend, Animal Story, Legend, Myth, Fairy Tale, Adventure, Historical Piece, Mystery, and Science Fiction
- Nonfiction
 - Definition
 - Elements—Organization and Diction
 - Genre/Type—Autobiography, Biography, Propaganda, and Articles
- Poetry
 - Definition
 - Elements—Structure, Rhyme, Meter, and Diction
 - Genre/Type—Ballad, Free Verse, Limerick, Shaped Poem, Epic, Narrative, and Pen Picture
 - Literary Device—Metaphors, Similes, Alliteration, Sound Effects, and Parallelism

Speaking and Listening

- Speaking Qualities

Spelling

- Homonyms
- Roots and Affixes

Vocabulary

- Abbreviations and Acronyms
- Alphabetizing
- Capitalization
- Contractions
- Dictionary Skills

- Word Relationships—Synonyms, Antonyms, and Homonyms
- Word Structure—Roots and Affixes

Special Topics

- The Bible as Literature—Nonfiction, Short Story, Poetry, Drama, and Parable
- The Nature of Advertising
- Creating an Advertisement
- Graphic Aids—Charts and Graphs
- Reference Materials—Dictionary, Encyclopedia, Almanac, Atlas, *Who's Who*, Thesaurus, and Concordance
- Study Skills—Note-Taking
- Word Play—Palindromes, Puns, and Conundrums

Additional Resources

In addition to the default course program, Language Arts 600 includes extra, alternate lessons, projects, and tests for use in enhancing instruction or addressing individual needs.

Literature List

The following lists literary works students will encounter in Language Arts 600.

Fiction

- Wier, Ester.
 - “The Loner.”
 - “The Lost Sheep.”

Poetry

- Carroll, Lewis. “A Mouse’s Tail.”
- Pound, Ezra. “In a Station of the Metro.”
- *Sir Patrick Spens*.
- Stevenson, Robert. “Rain.”

Language Arts 700

Course Overview

Language Arts 700 continues to build on the sequential development and integration of communication skills in four major areas—reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways:

- **Reading-** develops students’ reading skills, including the identification of main ideas, supporting details, and sequence; teaches students how to reach logical conclusions as well as use appropriate reading rates; shows students how to identify parts of speech in sentences, with emphasis on adjectives, adverbs, conjunctions, pronouns, and verb types; helps students develop basic literary comprehension skills through the reading of biographical and autobiographical pieces, poetry, and character analyses.
- **Writing-** develops students’ understanding of sentence structure, providing hands-on experience with coordination, conjunctions, subject-verb agreement, participles, and phrases; familiarizes students with roots, affixes, and basic word relationships, including homonyms, synonyms, and antonyms; develops students’ vocabulary and spelling skills; gives students the opportunity to develop their abilities in writing paragraphs, character analyses, character sketches, short biographies, summaries, and poetry; develops students’ critical thinking skills through speculative writing on morality.
- **Speaking-** teaches skills that enable students to become effective speakers and communicators, weaving the skills throughout the course.
- **Listening-** teaches effective listening comprehension skills, weaving these throughout the lessons; builds upon students' study skills.

Unit Overview

Unit 1: Nouns, Pronouns, and Using Words Correctly

11 Lessons, 1 Project, 6 Quizzes, 1 Test

Unit 2: Language Usage

10 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 3: Biographies and Grammar

10 Lessons, 1 Project, 4 Quizzes, 1 Test

Unit 4: Structure of Language

11 Lessons, 1 Project, 6 Quizzes, 1 Test

Unit 5: The English Language

16 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 6: Mechanics and Structure of English

16 Lessons, 7 Quizzes, 1 Project, 1 Test

Unit 7: The Hiding Place: A Study Guide

13 Lessons, 3 Projects, 6 Quizzes, 1 Test

Unit 8: Nonfiction and Communication

8 Lessons, 1 Project, 6 Quizzes, 1 Test

Unit 9: Writing and Pronunciation

14 Lessons, 4 Projects, 6 Quizzes, 1 Test

Unit 10: Review

17 Lessons, 1 Project, 6 Quizzes, 1 Test

Curriculum Contents

Reading Comprehension Skills

- Analyzing Characters
- Determining Author's Purpose—Reading for Entertainment and Reading for Information
- Identifying Main Ideas and Supporting Details
- Reaching Logical Conclusions
- Reading Nonfiction
- Reading Poetry
- Determining Reading Rate

Composition

- Character Analysis
- Character Sketch
- Essay Structure—Five Paragraph Essay
- Paragraph Elements—Topic
- Paragraph Organization—Sequence, Unity, and Format
- Paragraph Structure—Transitional, Inductive, and Deductive
- Speculative Writing
- Summarizing
- Writing a Biography
- Writing and Listening
- Writing on Morality and Feelings
- Writing Poetry—Limerick
- Writing on Poetry
- Writing a Report

Grammar and Usage

- Adjectives
- Kinds of Sentences—Declarative, Interrogative, Imperative, and Exclamatory
- Levels of Language Use—Standard, Nonstandard, Formal, and Informal
- Nouns—Common Nouns, Proper Nouns, and Direct Objects

- Pronouns—Nominative, Objective, Possessive, Reflexive, Demonstrative, and Archaic
- Punctuation—Apostrophes, Quotation Marks, Hyphens, and Parentheses
- Sentence Structure
 - Coordination
 - Errors in Construction—Fragments, Comma Splices, and Run-ons
 - Patterns
 - Prepositions and Prepositional Phrases
 - Subjects and Predicates
- Verbs—Tense, Irregular, Descriptive, and Auxiliary

Literature Studies

- Drama—Definition
- Fiction—Definition
- Nonfiction
 - Definition
 - Elements—Setting, Characterization, Mood, and Purpose
 - Genre/Type—Autobiography and Biography
 - Literary Device—Flashback and Foreshadowing
- Poetry
 - Elements—Rhyme and Meter
 - Genre/Type—Limerick and Nonsense Verse
 - Literary Device—Alliteration

Speaking and Listening

- Gestures
- Listening Strategies
- Speaking Strategies
- Types of Listening—Passive, Purposeful, Critical, Appreciative, and Conversational
- Voice—Pitch, Accent, Pause, and Intonation

Spelling

- Contractions
- Homonyms
- Hyphenated- Words
- Roots and Affixes
- Word Endings

Vocabulary

- Alphabetizing
- Capitalization
- Etymology
- Word Relationships—Synonyms, Antonyms, and Homonyms
- Word Structure—Roots and Affixes
- Word Study—Feeling Words and Signal Words

Special Topics

- English Variations—Dialects
- Reference Materials—Encyclopedia and Internet
- Research Skills
- Study Skills—Note-Taking and Summarizing

Additional Resources

In addition to the default course program, Language Arts 700 includes extra, alternate lessons, projects, and tests for use in enhancing instruction or addressing individual needs.

Literature List

The following lists literary works students will encounter in Language Arts 700.

Nonfiction

- Keller, Helen. *The Story of My Life* (excerpt).
- Ten Boom, Corrie. *The Hiding Place*.

Poetry

- Carroll, Lewis. “Jabberwocky.”
- Lear, Edward.
 - “The Owl and the Pussycat.”
 - Various Limericks.

Language Arts 800

Course Overview

Language Arts 800 continues to build on the sequential development and integration of communication skills in four major areas—reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways:

- **Reading-** reinforces reading comprehension skills by teaching students how to analyze propaganda and other forms of writing, including biographies, autobiographies, formal essays, and informal essays; shows students how to make denotative, symbolic, and connotative readings of a text; introduces both Old English and Middle English languages and literatures to develop students' understanding of English language formation and development; prepares students for the higher level literary comprehension skills required in the upper grades.
- **Writing-** develops students' understanding of sentence structure, providing hands-on experience with conjunctions, transitions, clauses, and common sentence errors; teaches language histories and etymologies to help students build on knowledge of word structures, including topics like prefixes, roots, and suffixes; expands on students' vocabulary and spelling skills; gives students the opportunity to develop their abilities in writing business letters, friendly letters, informal essays, and basic literature analyses.
- **Speaking-** offers students experience in delivering oral reports; teaches skills that enable students to become effective speakers and communicators, weaving these skills throughout the course.
- **Listening-** teaches effective listening comprehension skills, weaving these throughout the lessons; builds upon students' study skills as well as helps them to become reliable and efficient note takers.

Unit Overview

Unit 1: Communication

11 Lessons, 1 Project, 6 Quizzes, 1 Test

Unit 2: The English Language

12 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 3: Punctuation and Literature

11 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 4: Words and How to Use Them

8 Lessons, 6 Quizzes, 1 Test

Unit 5: Correct Language Use

14 Lessons, 3 Projects, 6 Quizzes, 1 Test

Unit 6: Language and Literature

13 Lessons, 3 Projects, 6 Quizzes, 1 Test

Unit 7: Critical Reading and Paragraph Skills

14 Lessons, 3 Projects, 6 Quizzes, 1 Test

Unit 8: Writing, Listening, and Reading

17 Lessons, 6 Projects, 6 Quizzes, 1 Test

Unit 9: The English Language
14 Lessons, 2 Projects, 6 Quizzes, 1 Test

Unit 10: Review
20 Lessons, 5 Projects, 6 Quizzes, 1 Test

Curriculum Contents

Reading Comprehension Skills

- Analysis of Propaganda
- Denotation, Connotation, and Symbolism
- Elements of Narrative Prose
- Following Written Directions
- Reading Formal and Informal Essays
- Reading Skills—Fact versus Opinion, Validity, and Authority

Composition

- Essay/Report—Structure and Process
- Paragraph Elements and Structure
- Writing Informal Essays
- Writing Paragraphs
- Writing Business and Friendly Letters

Grammar and Usage

- Conjunctions—Subordinate, Correlative, and Coordinating
- Clauses—Adjective, Adverb, and Dependent/Independent
- Capitalization
- Grammar Errors—Sentence Construction Errors
- Introductory Expressions—Interjections, Participle Phrases, and Adverb Clauses
- Levels of Language Use—Standard/Nonstandard
- Parts of Speech—Nouns, Verbs, Pronouns, Adverbs, and Adjectives
- Punctuation—Apostrophes, Hyphens, Italics, Commas, and End Punctuation
- Sentence Structure—Tense, Number, Person, and Transitions

Literature Studies

- Nonfiction—Biography and Autobiography
- Poetry—Genre and Elements
- Survey of English Literature—Old and Middle English

Speaking and Listening

- Direct/Indirect Communication
- Following Instructions
- Listening Skills—Strategies, Comprehension, and Note-Taking
- Nonverbal Communication
- Oral Report
- Speaking Skills—Purpose, Organization, and Delivery

Spelling

- Homonyms
- Borrowed Words
- Confusing Spellings
- Silent Letters
- Words with “ei” and “ie”
- Words with “-ize,” “-yze,” “-ise,” “-ent,” and “-ant” Endings

Vocabulary

- Confusing Words
- Correct Use of Numbers and Figures
- Connotation/Denotation

- Dictionary Skills
- Etymology
- Roots, Prefixes, and Suffixes
- Word Categorization
- Word Relationships

Special Topics

- Diacritical Marks
- English Variations
- Etymology
- Media Comprehension
- Note-taking
- Origin/Development of Language—Indo-European, Old and Middle English, and American English
- Use of Reference Materials

Additional Resources

In addition to the default course program, Language Arts 800 includes extra, alternate lessons, projects, and tests for use in enhancing instruction or addressing individual needs.

Literature List

The following lists literary works students will encounter in Language Arts 800.

Literature—Featured Nonfiction

- Byrd, Richard. *Flight to the South Pole* (excerpt).
- Stuart, Jesse. *The Thread That Runs So True* (excerpt).

Literature—Discussed Poetry

- *Beowulf*.
- Chaucer, Geoffrey. *Canterbury Tales*.
- “The Ruin.”
- “The Seafarer.”
- “Widsith.”
- “The Wanderer.”

Switched-On Schoolhouse[®] 2.0 Mathematics

Switched-On Schoolhouse[®] (SOS) Mathematics is a fully comprehensive math curriculum designed to meet and exceed necessary standards at all grade levels.

Content Strands

- **Number Skills-** These are developed throughout the elementary grades, with significant focus on basic operations, whole numbers, fractions, and decimals. Number skills include estimation and rounding skills as well as topics in measurement of length, weight, capacity, temperature, and time in both the standard and metric systems. They also cover application and “story problems.”
- **Geometry-** Geometry is integrated into all grade levels, reinforcing and extending the numeracy skills taught in the various courses. It’s introduced early in the math curriculum, with students learning to identify shapes and understand basic geometric concepts in the lower elementary grades. At the junior high level, students learn about formulas and encounter a more formal study of two- and three-dimensional shapes. Then in Math 1000, students focus on the formal study of logic and proof, working their way through a full year of geometry study that is equivalent to a standard high school Geometry course.

- **Algebra-** SOS Algebra preparation begins at the sixth and seventh grade levels, with an introduction to equations and variables. Eighth grade level students expand their skill-sets by studying rules for handling variables in equations, term combining, the FOIL method, and equations for solving word problems. Continuing to build on students' algebraic skills, Math 900, the equivalent of a standard Algebra I course, covers topics like inequalities, polynomials, factoring, radical expressions, systems of equations, graphing, and quadratics. Then, Math 1100, designed to be the equivalent of a standard Algebra II course, emphasizes advanced algebraic concepts.
- **Statistics-** The study of statistics is integrated throughout the curriculum, beginning with simple charts and graphs in the elementary grades and then moving on to the formal study of statistical measures and combinatorics in the high school grades.

Approach to Instruction

SOS Math course materials are designed in a reading-based instructional format intended to facilitate guided, independent progress of the average student. Assignments appear within a unit structure and integrate instructional text and multimedia for engaging presentation. The structure and sequence of materials in each unit, guided by principles of mastery learning, work together with the power of SOS automation and administration to promote opportunities for student academic growth and self-discipline.

Teachers can use the instructional content of SOS Math as a flexible learning base on which to develop, direct, and individualize the learning environment. Teachers can benefit from the automated content-delivery and grading features by letting the program handle time-consuming tasks that often prevent them from creating a personalized learning experience for their students. The time saved can be used to target and support individual student needs directly.

Approach to Assessment

SOS Math is a program designed around principles of mastery learning. Lessons for each of the ten units contain instruction and activities that target unit learning-goals. Quizzes reinforce those goals, acting as checkpoints teachers will find helpful in preparing students for each cumulative unit mastery test.

Most assignment problems (about 90%) are computer-graded to provide students with immediate feedback. As teachers review completed student work, they can, if needed, manually override computer-generated scores or send problems back to be reworked. Additionally, teacher-graded questions and writing projects provide opportunities and context for teachers to assist, support, and challenge students. Program settings that establish grading scale and assignment weighting serve as additional tools which teachers can use to meet the unique needs of individuals and classrooms.

Mathematics 600

Course Overview

Math 600 is a full-year math course designed for younger middle-school students (aged 10-12). This course continues students' mathematical growth by focusing on number skills and numerical literacy, with an introduction to the number skills needed for algebra. In it, students will gain solid experience with number theory and operations, including decimals and fractions. This course also integrates geometric concepts and skills throughout the units as well as introduces students to statistical and probability concepts. It presents instruction under the spiral method, with regular review and reinforcement of previous content.

By the end of the course, students will be expected to:

- Perform all four operations on whole numbers, decimals, and fractions
- Factor numbers completely and find greatest common factors

- Convert between fractions, decimals, and percents
- Represent numbers with exponents
- Calculate perimeters and areas of regular plane shapes and measure angles
- Solve problems related to measurement in metric and customary systems
- Plot ordered pairs on coordinate grids
- Represent data on statistical charts, including picture, bar, line, and circle graphs
- Calculate probabilities and make predictions

There are 148 lessons, 2 projects, 50 quizzes, and 10 tests to be completed over the entire course. All this is divided among 10 total units.

Unit Overview

15 Lessons, 5 Quizzes, 1 Test

Unit 1: Whole Numbers and Operations

22 Lessons, 5 Quizzes, 1 Test

- Whole Numbers and Mathematical Operations
- Comparing Whole Numbers
- Picture, Bar, and Pie Charts
- Fractions and Decimals
- Equivalent Fractions
- Multiplying and Dividing Mixed Numbers
- Proper, Improper, and Mixed Fractions
- Decimals Changed to Equivalent Decimals
- Adding, Subtracting, Multiplying, and Dividing Decimals
- Problem Solving
- Large Numbers
- Expanded Notation
- Estimating-Multiplication and Division

Unit 2: Multiplication with Whole and Decimal Numbers

13 Lessons, 5 Quizzes, 1 Test

- Multiplication of Whole and Decimal Numbers
- Addition and Subtraction of Fractions
- Adding and Subtracting Mixed Numbers with Like and Unlike Fractions
- Exponential Notation
- Base Ten System
- Equations Using Multiplication
- Factor Boxes and Trees

Unit 3: Decimals

- Division of Whole Numbers and Decimals
- Rounding Decimals
- Division Using 10, 100, and 1000
- Multiplication of Proper Fractions
- Fractions with Whole Numbers
- Multiplication with Mixed Numbers
- Comparing Decimals
- Converting Fractions and Decimals
- Signs of Division
- Properties of Addition and Multiplication

Unit 4: Decimals, Fractions, Shapes, and Formulas

15 Lessons, 5 Quizzes, 1 Project, 1 Test

- Division of Decimals by a Decimal
- Division of Fractions by a Fraction, Whole, or Mixed Number
- Lines, Angles, and Shapes
- Using Formulas
- Using Greatest Common Factors

Unit 5: Geometry and Statistics

14 Lessons, 5 Quizzes, 1 Test

- Lines and Shapes
- Perimeter and Area
- Numerating Systems
- Calculator Practice
- Operations
- Statistics—Averaging

- Statistics—Problems
- Prime Factors
- Greatest Common Factors and Lowest Common Multiples

Unit 6: Percents and Primes

14 Lessons, 5 Quizzes, 1 Test

- Percents
- Fractions to Decimals
- Finding Percents
- Ratios
- Fractions
- Rounding
- Divisibility Rules
- Prime and Composite Numbers
- Review—Multiplication, Division, and Rounding

Unit 7: Measurements and Fractions

15 Lessons, 5 Quizzes, 1 Test

- Measurements—Length, Weight, and Capacity
- Positive and Negative Numbers
- Coordinate Graphs
- Formulas
- Statistics
- Reducing Improper Fractions and Mixed Numbers
- Equivalent Fractions
- Adding and Subtracting Fractions

Unit 8: Metric System, Fractions, and Equations

16 Lessons, 5 Quizzes, 1 Test

- The Metric System
- Converting Metric to English
- Equations Using Decimals and Percents
- Percent Problems
- Prime Factoring
- Formulas
- Geometric Shapes
- Multiplying and Dividing Whole Numbers, Fractions, and Mixed Numbers

Unit 9: Probability and Decimals

12 Lessons, 5 Quizzes, 1 Test

- Prediction and Probability
- Reading Picture, Bar, Line, and Circle Graphs
- Positioning the Decimal Point
- Rewriting Decimals to Find the Answer
- Multiplying, Adding, and Subtracting Decimals
- Changing Fractions to Decimals

Unit 10: Review

12 Lessons, 5 Quizzes, 1 Project, 1 Test

- Comparing Whole Numbers
- Multiplying Whole Numbers
- Charting a Graph
- Fractions
- Multiplying and Dividing Mixed Numbers
- Adding, Subtracting, Multiplying, and Dividing Decimals
- Problem Solving

Mathematics 700

Course Overview

Math 700 is a full-year math course designed for middle school students (aged 11-13). This course continues students' mathematical growth by bridging numerical literacy with algebra skills. In it, students will gain solid experience with number theory and operations and learn how to evaluate formulas. This course also integrates geometric concepts and skills throughout the units as well as introduces students to statistical and probability concepts. In addition, the course teaches pre-algebraic skills and techniques, from simple equation solving to the formal study of logic and set notation. It presents instruction under the spiral method, with regular review and reinforcement of previous content.

By the end of the course, students will be expected to:

- Perform all four operations on whole numbers, fractions, and decimals

- Understand Venn diagrams and set notation
- Convert between fractions, decimals, and percents
- Solve problems with ratios and proportions
- Calculate the perimeters and areas of parallelograms, hexagons, triangles, and circles
- Solve problems related to measurement in metric and customary systems
- Plot ordered pairs on a coordinate grid
- Solve simple equations and evaluate formulas
- Represent data on statistical charts, including picture, bar, line, and circle graphs
- Calculate probabilities and make predictions

There are 121 lessons, 31 quizzes, and 10 tests to be completed over the entire course. All this is divided among 10 total units.

Unit Overview

Unit 1: Sets and Number Systems

14 Lessons, 2 Quizzes, 1 Test

- Venn Diagrams
- Sets—Special Symbols
- Sets—Types and Uses
- Sets—Intersection and Union
- Number Systems—Ancient, Base 10, Base 5, Base 2, and Base 16

Unit 2: Place Value

9 Lessons, 2 Quizzes, 1 Test

- Expanded and Exponential Form
- Addition and Subtraction
- Decimals—Addition and Subtraction
- Decimals—Applications

Unit 3: Whole Numbers

10 Lessons, 2 Quizzes, 1 Test

- Number Order
- Number Sentences, Patterns, and Ordered Pairs
- Rounding Numbers and Estimation
- Word Problems
- Calculator Exercises

Unit 4: Multiplication and Division

11 Lessons, 2 Quizzes, 1 Test

- Properties, Rules, Patterns, and Estimation
- Multiplication
- Functions
- Division
- Number Patterns, Function Rules, and Word Problems
- English System of Weights and Measures
- Calculator Exercises

Unit 5: Fraction Addition and Subtraction

26 Lessons, 5 Quizzes, 1 Test

- Factors and Prime Factorization
- Greatest Common Factors and Least Common Multiples
- Proper Fractions
- Improper Fractions
- Number Line, Mixed Numbers, and Order of Size
- Decimals
- Fractions as Decimals
- Percents
- Fractions in Ratios and Proportions
- Decimals in Metric Measurement
- Terminating and Repeating Decimals
- Decimals with Calculators
- Like Denominators
- Adding/Subtracting and Reducing
- Mixed Numbers
- Applications
- Least Common Denominators
- Equivalent Fractions
- Operations
- Unlike Denominators
- Adding and Subtracting Fractions
- Applications

Unit 6: Fraction Multiplication and Division

12 Lessons, 3 Quizzes, 1 Test

- Common Fractions—Multiplication
- Common Fractions—Common Factors
- Common Fractions—Mixed Numbers
- Common Fractions—Improper Fractions
- Common Fractions—Division
- Common Fractions—Word Problems
- Decimals—Introduction

- Decimals—Multiplication and Division
- Decimals—Word Problems
- Percentages—Introduction
- Percentages—Rate and Base

Unit 7: Geometry

11 Lessons, 5 Quizzes, 1 Test

- Segments, Lines, and Angles
- Triangles—Measurement
- Quadrilaterals—Squares and Rectangles
- Parallelograms, Trapezoids, and Formulas
- Circles
- Hexagons
- Geometric Ratios—Fractions in Ratios and Proportions
- Similar Figures and Scale Drawings

Unit 8: Statistics and Graphs

6 Lessons, 3 Quizzes, 1 Test

- Gathering and Organizing Data
- Mean, Median, Mode, and Range
- Types of Graphs
- Graphs of Points

Unit 9: Formulas, Functions, Ratios, and Proportions

8 Lessons, 3 Quizzes, 1 Test

- Formulas—Area, Distance, and Price
- Formulas—from Interest to Miles Per Gallon
- Using a Function Machine
- Equations—Defining and Solving
- Isolating the Variable
- Solving Word Problems
- Ratios and Proportions

Unit 10: Math in Sports Themed Review

13 Lessons, 2 Quizzes, 1 Test

- Place Names, Order, and Rounding
- Ratios and Proportions
- Word Problems
- Geometric Figures
- Sets and Number Systems
- Factorization
- Fractions
- Base, Rate, and Percentage
- Formulas
- Statistics and Graphs

Mathematics 800

Course Overview

Math 800 is a full-year math course designed for older middle school students (aged 12-14). This course continues students' mathematical growth by bridging numerical literacy with algebra readiness. In it, students will gain solid experience with number theory and operations and study pre-algebraic skills and techniques. This course also integrates geometric concepts and skills throughout the units as well as introduces students to statistical and probability concepts. It presents instruction under the spiral method, with regular review and reinforcement of previous content.

By the end of the course, students will be expected to:

- Perform all four operations on whole numbers, fractions, and decimals
- Evaluate expressions with integers and exponents
- Convert between fractions, decimals, and percents
- Solve problems with ratios and proportions
- Calculate the perimeter, area, and volume of figures and solids
- Solve problems related to measurement in metric and customary systems
- Plot ordered pairs on a coordinate grid
- Solve two-step equations, evaluate formulas, and identify FOIL terms
- Represent data on statistical charts, including picture, bar, line, and circle graphs
- Calculate dependent and independent probabilities

There are 140 lessons, 29 quizzes, and 10 tests to be completed over the entire course. All this is divided among 10 total units.

Unit Overview

Unit 1: Place Value

15 Lessons, 4 Quizzes, 1 Test

- Place Value
- Whole Numbers from Words to Numerals
- Composition of Whole Numbers
- Rounding Large Numbers
- Number and Numerical Concepts
- Numerals Using Addition Concepts
- Number Systems Using Multiplication
- Numbers Using Base 10 and Other Bases
- Types and Properties of Number Sets
- Simple Probability
- Union and Intersection of Sets

Unit 2: Factoring and Multiples

24 Lessons, 4 Quizzes, 1 Test

- Divisibility Tests, Factors, and Multiples
- Greatest Common Factor and Least Common Multiple
- Proper Fractions and Equivalent Fractions
- Reducing Fractions and Raising Fractions
- Fractions—Mixed Number Fractions and Improper Fractions
- Order and Place Value
- Changing Decimals to Fractions
- Percents as Decimals and Fractions
- Ratios and Proportions
- Similar Figures and Scale Drawings
- Decimals and Metric Measurement
- Terminating Decimals and Repeating Decimals
- Predictions and Combining Decimals
- Using Calculator and Non-Rational Numbers

Unit 3: Fractions and Rounding

15 Lessons, 4 Quizzes, 1 Test

- Simplifying Fractions
- Addition—Unlike Fractions and Mixed Numbers

- Measurement
- Subtraction of Like and Unlike Fractions and Mixed Numbers
- Addition and Subtraction of Decimals
- Calculator Exercises
- Rounding Numbers

Unit 4: Fractions and Percent

11 Lessons, 3 Quizzes, 1 Test

- Common Fractions—Multiplication and Canceling
- Mixed Numbers and Decimal Numbers
- Common Fractions and Mixed Numbers
- Decimal Numbers
- Division with Decimals and Fractions
- Dividing to the Nearest Thousandth
- Fractions as Percents and Basic Equations
- Base/Percent Unknowns, Percent of Change, and Percent Problems

Unit 5: Numbers

17 Lessons, 2 Quizzes, 1 Test

- Whole Numbers and Multiplication
- Division
- Word Problems Using the Four Operations
- Numbers and Sets
- Factors, Multiples, and Rational Numbers
- Decimals and Applications
- Application of Common Fractions
- Addition of Common Fractions
- Decimals
- Fractions and Percent
- Statistics
- Graphs and Probability

Unit 6: Formulas and Geometry

9 Lessons, 3 Quizzes, 1 Test

- Formulas
- Perimeter, Circumference, and Area
- Triangles and the Pythagorean Formula
- Geometric Figures

- Solid Figures—Rectangular Solids, Pyramids, and Prisms
- Calculator Exercises
- Translations

Unit 7: Integers

13 Lessons, 2 Quizzes, 1 Test

- Introduction to Integers
- Graphing and Plotting
- The Vertical Number Line
- Addition and Subtraction of Integers
- Rules and Properties of Addition
- Adding Opposites
- Multiplication and Division
- Exponents

Unit 8: Variables

16 Lessons, 3 Quizzes, 1 Test

- The Commutative and Associative Properties
- Variable Used in Formulas
- The Distributive Property
- The FOIL Method, Monomials, and Binomials
- The Addition and Subtraction Property of Equality
- The Multiplication and Division Property of Equality

- Combination of Terms Equations
- Translations
- Sentences to Equations
- Problem Solving
- Consecutive Integer and Proportion Problems

Unit 9: Statistics and Probability

8 Lessons, 2 Quizzes, 1 Test

- Statistics—Mean, Median, and Mode
- Deviation or Spread, and Frequency Distribution
- Pictographs and Bar Graphs
- Line Segment Graphs and Histograms
- Number Patterns and Functions

Unit 10: Pre-Algebra Review

13 Lessons, 2 Quizzes, 1 Test

- Integers
- Operations of Addition, Subtraction, Multiplication, and Division
- Expressions and Sentences
- Graphs
- Formulas
- Area and Volume
- Variables
- Applications

Switched-On Schoolhouse[®] 2.0 Science

Switched-On Schoolhouse[®] (SOS) Science is a comprehensive, basic curriculum for grades 3 through 12, focusing on the development of observational skills and study of God's physical universe.

Because SOS Science is a diverse program, the elementary and junior high grades (3-9) present four major areas of science as independent surveys, usually on a unit-by-unit basis. The high school grades (10-12) focus on these areas, presenting instruction as specialized courses, namely Biology, Chemistry, and Physics. The four major areas in SOS Science, woven through the curriculum, consist of:

Life Science

- **Plants and Animals-** In the elementary grades, SOS Science introduces students to the structures and life processes of all living organisms. It uses specific organisms to present and illustrate general ideas and concepts.
- **Human Anatomy and Personal Health-** SOS Science covers human anatomy and personal health, touching on these topics in the lower grades and delving into them in more detail in the junior high grades.
- **Biology-** The Science 1000 curriculum, covering topics that range from bases of life to cellular and genetic biology, concentrates wholly on the study of Biology.

Earth and Space Sciences

- **Geology-** Each of the elementary and junior high Science courses covers not only the study of the Earth but also what students find in and on the Earth itself.

- **Weather-** Elementary and junior high students study atmospheric conditions and ways in which these conditions affect each other and the planet as a whole.
- **Space-** SOS Science shows students how the stars, the solar system, and the Earth relate to other objects in space.

Physical Sciences

- **Chemistry-** SOS Science introduces Chemistry in the upper elementary grades and then continues to build on key concepts in its junior high courses. Students will learn about matter, studying not only how matter is structured but also how it reacts with other matter in the world. In Science 1100, students will encounter an entire course dedicated to the study of Chemistry.
- **Physics-** SOS Science first introduces concepts in Physics in the early elementary grades and then continues to develop student understanding in this area up through the junior high level. In each of the different grades, students study machines and different forms of energy, including light, sound, heat, electrical, and mechanical energy. In Science 1200, students will concentrate a whole year on the study of Physics.

Nature of Science

- **Scientific Method-** In SOS Science, students learn how to apply observing and reasoning skills to their studies, applying the scientific method. These skills are woven throughout the entire curriculum.
- **Experimentation-** In each grade level, students encounter experimentation and demonstrations that are designed to help them visualize abstract concepts. The experimentation starts out simply in the lower grades and then builds in intensity and complexity as grade levels increase.
- **Technology-** As relevant to key scientific topics, technology is integrated throughout the curriculum. It emphasizes how different scientific concepts should be applied for the benefit of society.

Approach to Instruction

SOS Science course materials are designed in a reading-based instructional format intended to facilitate guided, independent progress of the average student. Assignments appear within a unit structure and integrate instructional text and multimedia for engaging presentation. The structure and sequence of materials in each unit, guided by principles of mastery learning, work together with the power of SOS automation and administration to promote opportunities for student academic growth and self-discipline.

Teachers can use the instructional content of SOS Science as a flexible learning base on which to develop, direct, and individualize the learning environment. Teachers can benefit from the automated content-delivery and grading features by letting the program handle time-consuming tasks that often prevent them from creating a personalized learning experience for their students. The time saved can be used to target and support individual student needs directly.

Approach to Assessment

SOS Science is a program designed around principles of mastery learning. Lessons for each of the ten units contain instruction and activities that target unit learning-goals. Quizzes reinforce those goals, acting as checkpoints teachers will find helpful in preparing students for each cumulative unit mastery test.

Most assignment problems (about 90%) are computer-graded to provide students with immediate feedback. As teachers review completed student work, they can, if needed, manually override computer-generated scores or send problems back to be reworked. Additionally, teacher-graded questions and writing projects provide opportunities and context for teachers to assist, support, and challenge students. Program settings that establish grading scale and assignment weighting serve as additional tools which teachers can use to meet the unique needs of individuals and classrooms.

Science 600

Course Overview

Science 600 is a basic intermediate course intended to expose students to the designs and patterns in God's physical universe. This course expands on the Science 300-500 elementary courses, providing a broad survey of the major areas of science, including the life, earth, space, and physical sciences. It also seeks to hone students' observational skills through experimentation and projects, preparing students for higher levels of science.

Upon completion of the course, students should be able to:

- Use their main senses for observation of the world around them
- Describe the different systems in plants and animals
- Explain the different ways plants and animals behave
- Explain how Mendel used observation to develop his theories
- Demonstrate a basic knowledge of chemical structure and the periodic table
- Discuss light and sound waves
- Describe motion as it relates to force and work
- Explain how time and season are related to the rotation and revolution of the Earth
- Identify common stars and constellations

Unit Overview

Unit 1: Plant Systems
8 Lessons, 6 Experiments/Projects, 3 Quizzes, 1 Test

- Parts of the Plant
- Systems of Photosynthesis
- Transport Systems
- Regulatory Systems

Unit 2: Animal Systems
7 Lessons, 8 Experiments/Projects, 3 Quizzes, 1 Test

- The Digestive System
- The Excretory System
- The Skeletal System
- Diseases

Unit 3: Plant and Animal Behavior
9 Lessons, 6 Experiments/Projects, 3 Quizzes, 1 Test

- Animal Behavior/Nervous System/Instincts
- Plant Behavior/Tropisms
- Plant-Animal Interaction
- Balance in Nature

Unit 4: Molecular Genetics
9 Lessons, 9 Experiments/Projects, 3 Quizzes, 1 Test

- Reproduction
- Inheritance
- DNA and Mutations
- Mendel's Work

Unit 5: Chemical Structure and Change

8 Lessons, 13 Experiments/Projects, 3 Quizzes, 1 Test

- Nature of Matter
- Periodic Table
- Diagrams of Atoms
- Acids and Bases

Unit 6: Light and Sound
5 Lessons, 10 Experiments/Projects, 3 Quizzes, 1 Test

- Sound Waves
- Light Waves
- The Visible Spectrum
- Colors

Unit 7: Motion and Its Measurement
5 Lessons, 5 Experiments/Projects, 3 Quizzes, 1 Test

- Definition of Force
- Rate of Doing Work
- Laws of Motion
- Change in Motion

Unit 8: Spaceship Earth
8 Lessons, 5 Experiments/Projects, 3 Quizzes, 1 Test

- Shape of the Earth
- Rotation and Revolution
- Eclipses
- The Solar System

Unit 9: The Sun and Other Stars

7 Lessons, 6 Experiments/Projects, 3 Quizzes, 1 Test

- The Sun
- Investigating Stars
- Common Stars
- Constellations

16 Lessons, 1 Experiment/Project, 2 Quizzes, 1 Test

- Plant Systems
- Animal Systems
- Physics and Chemistry
- The Earth and Stars

Unit 10: The Earth and the Universe

Additional Resources

In addition to the default course program, Science 600 includes extra, alternate assignments, experiments/projects, and tests for use in enhancing instruction or addressing individual needs.

Materials List for Experiments

The following lists materials teachers should provide for Science 600 experiments. Asterisks (*) next to materials indicate that those materials are intended for alternate experiments rather than experiments in the regular default course program.

4 kernels of corn or beans	towels	* large ball about the size of a basketball
a clean, square, plastic refrigerator dish	celery stalk with leaves	* large pea pod
a mint	* clear drinking glass	* lights of various types
* a navel orange and a seeded variety of an orange	clear glass dish	* lima beans
a small block of wood (or a rock)	clear limewater	limewater
* a small bunch of seedless grapes	clear plastic glasses	lined trash can
* access to flight of stairs	clock or watch	* liquid black ink
Anacharis	coin	liquid soap
* automotive motor oil	cooking oil	* magnifying glass
baby-food jars	copper penny	marble
baking soda	cotton swab	masking tape
balloon	crayons	metric ruler
* banana	dental rubber	microscope
beaker or small saucepan	bands/small rubber bands	microscope slide
Benedict's solution	dialysis membrane or semi-permeable membrane	newspaper or brown wrapping paper
black or dark-brown crayon	* dried garden pea seeds	paper towel
* black paper or very dark material	dropper	paste
blackboard	fish food	pencil
bowl of water	* flashlight	Phenolphthalein solution
burner (stove, alcohol lamp, or Bunsen burner)	food coloring (red or blue)	* piece of card stock or heavy paper
cardboard circle about 5 in. diameter	* fresh flower	* piece of diffraction grating
* cardboard cylinder from a roll of paper	glucose test strips	piece of red glass or red cellophane
	glue or shellac	piece of rope or cord 10 ft. long
	hand air pump	piece of string, 4 ft. long
	* heavy box filled with 3 pounds of weight	pieces of cloth—red, green, black, and white
	honey	plastic bag
	household ammonia	
	iodine solution	

- * plastic knife
- plastic spoon
- PTC taste paper strips
- Pyrex beaker (about 250 ml)
- quart jar
- radish or corn seeds
- razor blades (single-edged)
- * red, green, and blue cellophane
- * red, yellow, and blue dye or food coloring
- Rennet tablet or 1/2 g rennin
- * round balloon filled with air
- rubbing alcohol
- ruler

- * ruler marked in millimeters
- sand or dirt
- scissors
- several goldfish in bowls
- * sheet of black construction paper
- * small ball about the size of a tennis ball
- * small circles of paper
- small pan
- small rectangular mirror
- * small ruler
- soda crackers
- soda pop
- soda straws
- * spectroscope
- * spring scale (with hook)
- square piece of cardboard
- * square-shaped object
- stapler
- starch
- * stem cutting of growing plants
- straw
- * strong light of 100 watts or more

- styrofoam balls
- * tablespoon
- test tube and clamp
- test tubes with stoppers, or 2 tall thin bottles
- thumb tacks
- toothpicks
- tuning fork
- two cotton balls
- two large test tubes, about 6" long
- two plastic cups with lids or small glass jars
- vinegar
- watch that shows the seconds
- white paper
- white styrofoam ball
- whole milk

Science 700

Course Overview

Science 700 is a basic intermediate course intended to expose students to the designs and patterns in God's physical universe. This course expands on the Science 600 course, providing a set of basic scientific skills and a broad survey of the major areas of science, including the life, earth, and space sciences. It also seeks to hone students' observational skills through experimentation and projects, preparing students for higher levels of science.

Upon completion of the course, students should be able to:

- Use their main senses for observation of the world around them
- Demonstrate a knowledge of the different tools and methods used in science
- Calculate and convert units in the metric system
- Discuss historical and current views on astronomy
- Describe the atmosphere and the weather around the Earth
- Demonstrate a basic knowledge of the different systems in the human body

Unit Overview

Unit 1: What Is Science?

7 Lessons, 1 Experiment/Project, 4 Quizzes, 1 Test

- Tools of a Scientist
- Methods of a Scientist
- Work of a Scientist
- Careers in Science

Unit 2: Perceiving Things

7 Lessons, 1 Experiment/Project, 2 Quizzes, 1 Test

- History of the Metric System
- Metric Units
- Advantages of the Metric System
- Graphing Data

Unit 3: Earth in Space I

4 Lessons, 3 Experiments/Projects, 3 Quizzes, 1 Test

- Ancient Stargazing
- Geocentric Theory
- Copernicus
- Tools of Astronomy

Unit 4: Earth in Space II

6 Lessons, 1 Experiment/Project, 4 Quizzes, 1 Test

- Solar Energy
- Planets of the Sun
- The Moon
- Eclipses

Unit 5: The Atmosphere

4 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Layers of the Atmosphere
- Solar Effects
- Natural Cycles
- Protecting the Atmosphere

Unit 6: Weather

6 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Elements of Weather
- Air Masses and Clouds
- Fronts and Storms
- Weather Forecasting

Unit 7: Climate

4 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Climate and Weather
- Worldwide Climate
- Regional Climate
- Local Climate

Unit 8: Human Anatomy I

5 Lessons, 2 Experiments/Projects, 3 Quizzes, 1 Test

- Cell Structure and Function
- Skeletal and Muscle Systems
- Skin
- The Nervous System

Unit 9: Human Anatomy II

6 Lessons, 1 Experiment/Project, 4 Quizzes, 1 Test

- The Respiratory System
- The Circulatory System
- The Digestive System
- The Endocrine System

Unit 10: Review

11 Lessons, 1 Experiment/Project, 4 Quizzes, 1 Test

- Review of Scientific Principles
- Review of the Solar System
- Review of the Earth and Its Weather
- Review of the Systems in Plants, Animals, and Humans

Additional Resources

In addition to the default course program, Science 700 includes extra, alternate assignments, experiments/projects, and tests for use in enhancing instruction or addressing individual needs.

Materials List for Experiments

The following lists materials teachers should provide for Science 700 experiments. Asterisks (*) next to materials indicate that those materials are intended for alternate experiments rather than experiments in the regular default course program.

- * 1 ½ x 8 cm piece of tin
- * 13 x 8 x 1 ½ cm block of wood
- * 15 cm piece of thread
- 2 pieces of thin cardboard
- * 20 x 20 x 3 cm block of wood
- * 20 x 3 x 3 cm block of wood
- * 4 cm nail
- * 5 cm nail
- * drinking straw
- eye dropper
- * full-circle protractor
- * glue
- half glass of water
- * half-circle protractor
- ice cubes
- iodine solution
- microscope
- paper fastener
- pens and markers
- red food coloring
- sharp knife
- shiny metal can
- slide and cover slip
- * small metal washer
- stalk of celery
- teaspoon
- thermometer
- tweezers
- wooden splint

Science 800

Course Overview

Science 800 is a basic intermediate course intended to expose students to the designs and patterns in God's physical universe. This course expands on the Science 600 and Science 700 courses, providing a set of basic scientific skills and a broad survey of the major areas of science, including the health, life, and physical sciences. It also seeks to hone students' observational skills through experimentation and projects, preparing students for higher levels of science.

Upon completion of the course, students should be able to:

- Use their main senses for observation of the world around them
- Define science and describe its history
- Demonstrate a knowledge of the different changes in matter
- Describe elements and compounds in the terms of atoms and molecules
- Know how to develop good health habits
- Explain and give examples of the different types of energy
- Describe different types of simple machines
- Discuss the balance in nature regarding the different cycles

Unit Overview

Unit 1: Science and Society

5 Lessons, 3 Experiments/Projects, 4 Quizzes, 1 Test

- Definition of Science
- History of Science
- Science Today
- Science Tomorrow

Unit 2: Structure of Matter I

7 Lessons, 2 Experiments/Projects, 3 Quizzes, 1 Test

- Properties of Matter
- Chemical Properties of Matter
- Atoms and Molecules
- Elements, Compounds, and Mixtures

Unit 3: Structure of Matter II

7 Lessons, 3 Experiments/Projects, 4 Quizzes, 1 Test

- Changes in Matter
- Acids
- Bases
- Salts

Unit 4: Health and Nutrition

4 Lessons, 2 Experiments/Projects, 4 Quizzes, 1 Test

- Foods and Digestion
- Diet
- Nutritional Diseases

- Hygiene

Unit 5: Energy I

6 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Kinetic and Potential Energy
- Other Forms of Energy
- Energy Conversions
- Entropy

Unit 6: Energy II

5 Lessons, 2 Experiments/Projects, 3 Quizzes, 1 Test

- Magnetism
- Current and Static Electricity
- Using Electricity
- Energy Sources

Unit 7: Machines I

6 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Measuring Distance
- Force
- Laws of Newton
- Work

Unit 8: Machines II

5 Lessons, 2 Experiments/Projects, 4 Quizzes, 1 Test

- Friction
- Levers
- Wheels and Axles

- Inclined Planes

Unit 9: Balance in Nature
6 Lessons, 1 Experiment/Project, 3 Quizzes, 1 Test

- Photosynthesis
- Food
- Natural Cycles
- Balance in Nature

Unit 10: Science and Technology
9 Lessons, 1 Experiment/Project, 4 Quizzes, 1 Test

- Basic Science
- Physical Science
- Life Science
- Vocations in Science

Additional Resources

In addition to the default course program, Science 800 includes extra, alternate assignments, experiments/projects, and tests for use in enhancing instruction or addressing individual needs.

Materials List for Experiments

The following lists materials teachers should provide for Science 800 experiments. Asterisks (*) next to materials indicate that those materials are intended for alternate experiments rather than experiments in the regular default course program.

ammonia	several different small
asbestos pad	metal objects
baking soda in water	several sheets of
balance	paper
bar magnets, 2	sheet of glass
beaker	small jar
beaker or container	small match box
* book	small plastic bag
burner	small test tubes, 6
coins	spoon
compass	string
crayons	sugar
crushed ice	thermometer
dish	thumbtack
filter paper	time piece with
funnel	seconds
horseshoe magnet	vinegar
hotplate	* wall mounted pencil
iron filings	sharpener
knife	water
lemon juice	
measuring cup	
* meter stick	
milk	
paperclips	
pebbles	
plastic or paper	
pot	
red cabbage	
ring stand	
round sticks, 8 to 10	
salt	
sand, BBs, or small	
pebbles	
scale or balance	

The Story of the Constitution

Course Overview

The Story of the Constitution explores the origins of the United States and the steps that led to the formation of the Constitution. It covers the U.S. Constitution, in detail, focusing on the historical background of this primary legal document, providing a detailed analysis of the Constitution and its amendments, and offering a broader evaluation of the Constitution and its principles. This course is produced in partnership with Christian Liberty Press, who provided the basic content.

Upon completion of the course, students should be able to:

- understand how conflict between the American colonies and Great Britain led to American independence
- understand the role that religion played in America’s fight for independence
- identify significant leaders and their accomplishments in
 - the fight for American independence
 - the development of America’s new form of government
- understand the process involved in writing and ratifying the new Constitution
- understand how the overall design and specific features of the Constitution not only distribute power among different branches and levels of government but also use a system of checks and balances in order to prevent the abuse of that power
- explain the unique roles and responsibilities of the three branches of government as established by the U.S. Constitution
- know the key issues of each Constitutional amendment
- know the issues behind landmark U.S. Supreme Court decisions, such as *Brown v. Board of Education*, *Regents of the University of California v. Bakke*, *Reynolds v. Sims*, and *Miranda v. Arizona*.

Additionally, students will gain practice in report-writing, covering topics like early American law, the Articles of Confederation, and more.

Unit Overview

Unit 1: The Colonies Struggle for Independence

6 Lessons, 1 Project, 2 Quizzes, 1 Test

- The Background of Colonial Political Thought
- The Background of Colonial Government
- The Colonies’ Struggle for Independence

Unit 2: A New Nation Is Formed

7 Lessons, 1 Project, 3 Quizzes, 1 Test

- The Articles of Confederation
- Responses to Problems with the Articles of Confederation
- The Constitutional Convention

Unit 3: Writing and Ratifying the Constitution

7 Lessons, 1 Project, 2 Quizzes, 1 Test

- Developing the Constitution—Competing Plans and Compromises
- The Struggle to Ratify the Constitution

Unit 4: Preamble and Article I

5 Lessons, 2 Quizzes, 1 Test

- Preamble—The Purpose of the Constitution
- Article I—The Legislative Branch

Unit 5: Articles II - VII

4 Lessons, 1 Project, 2 Quizzes, 1 Test

- Article II—The Executive Branch
- Article III—The Judicial Branch
- Article IV – VII
 - The States
 - The Amendment Process
 - The Legal Status of the Constitution
 - Ratification

Unit 6: Amendments I - XV

6 Lessons, 2 Quizzes, 1 Test

- Amendments I – X—The Bill of Rights
- Amendments XI – XV
 - Suits against a State

- Elections of the President and the Vice-President
- Reconstruction Amendments

Unit 7: Twentieth Century Amendments

4 Lessons, 2 Quizzes, 1 Test

- Amendments XVI - XXVII

Unit 8: The Principles and Nature of Our Constitution

5 Lessons, 2 Quizzes, 1 Test

- Principles of the Constitution
- Nature of the Constitution

Additional Resources

In addition to the default course program, The Story of the Constitution includes supplementary projects and essays for use in enhancing instruction or addressing individual needs.

Also, several unique appendices are provided, giving the student the complete text of the Constitution and amendments, an outline of the Constitution, biographies of all the signers of the Constitution and other Founding Fathers, and a list of recommended materials for further study.

Health Quest

Course Overview

Switched-On Schoolhouse® Health Quest is a health science elective course for upper elementary and junior high students. The curriculum introduces students to the concepts of what good health is, why good health is important, and what students should do to achieve good health.

Upon completion of the course, students should be able to:

- demonstrate an awareness of health as it applies to their own bodies, minds, and emotions
- demonstrate an awareness of health as it applies to their living environments
- identify the components of a healthy lifestyle and set reasonable goals to achieve a lifestyle of wellness
- understand that incorporating sound health practices creates a lifestyle of moderation and wellness
- understand the responsibility of properly stewarding the bodies God has given them as directed in the Bible
- describe health as it applies to broader society, the world, and their own responsibility to stimulate good health around them

Unit Overview

Unit 1: Your Body

Introduces the different systems in the human body, showing how the body develops from birth through childhood, during adolescence, and in adulthood.

Unit 2: Health

Demonstrates to students how they may develop good practices as they promote proper mental, emotional, physical, and social health.

Unit 3: Nutrition and Fitness

Teaches about how to establish healthy eating practices and proper fitness routines.

Unit 4: Health Maintenance

Focuses instruction on safety, emergency care, and disease prevention.

Unit 5: Stewardship

Discusses how students may apply the principles of good stewardship, covering topics like pollution, drugs, alcohol, and tobacco.

Additional Resources

Included at the end of the last unit is an optional lesson on sexually transmitted diseases, thoughtfully and discerningly presented by a Christian Physician. This topic, ever present in today's society, may be added to the course at the discretion of the teacher.

