Encyclopedia of Science and Religion

Macmillan Reference USA - 2003

Subject Area

	Sci, Tech, & Society	History	ealth/Indiv Developme	Global & Current Issues	Ethics
	Standard & Examples	Standard & Examples	Standard & Examples	Standard & Examples	Standard & Examples
National	NCSS: "The learner can analyze how science and technology influence the core values, beliefs, and attitudes of society, and how core values, beliefs, and attitudes of society shape scientific and technological change." Entries on Altrusim; Anthropocentrism; Creationism; Determinism; Religion and Values, Origins of; Feminisms and Science.	NCHS: "The student is able to explain the significance of the printing press, the computer, and electronic developments in communication, and describe their impact on the spread of ideas." Entries on Artificial Intelligence; Information; Information Technology; Science Fiction.	NCSS: "The learner can describe the ways family, religion, gender, ethnicity, nationality, socioeconomic status, and other group and cultural influences contribute to the development of a sense of self." Entries on Ethnicity; Evolution, Human; Freedom; Genetic Determinism; Life, Religious and Philosophical Aspects; Nature vs. Nuture; Sociobiology; Soul.	NCSS: "The learner can analyze and evaluate the effects of changing technologies on the global community." Entries on Artificial Life; Ecofeminism; Ecology, Science of; Global Warming; Greenhouse Effect; Human Ecology; Information Technology; Medicine; Nuclear Energy; Robotics.	NCSS: "The learner can recognize and interpret varied perspectives about human societies and the physical world using scientific knowledge, ethical standards, and technologies from diverse world cultures." Entries on Anthropology; Culture, Origins of; Life Sciences; Paleo-anthropology; Pale-ontology; Psychology; Sociobology; Sociology.
California	"Students investigate a science-based societal issue by researching the literature, analyzing data, and communicating the findings." Entries on Animal Rights; Cloning; Eugenics; Genetic Engineering; Global Warming; Human Genome Project; Science Wars; Scopes Trial; Stem Cell Research; Xenotransplantation.	"Students examine how scientific and technological changes and new forms of energy brought about massive social, economic, and cultural change." Entries on Big Bang Theory; Evolution, Human; Galileo Galilei; Genetics; Medicine; Modernity; Nuclear Energy; Physics, Quantum; Relativity, General Theory of.	"Students apply criteria for selecting health services, products, and information….Students analyze how individual citizens and communities can promote a healthy and safe environment." Entries on Abortion; Ecology; Ecofeminism; Gene Therapy; Medicine, Alternative; Meditation; Reproductive Technology; Spirituality and Health.	"Students analyze the integration of countries into the world economy and the information, technological, and communications revolutions (e.g., television, satellites, computers)." Entries on Information; Information Technology; Modernity; Robotics; Technology.	"Students analyze the similarities and differences in Judeo-Christian and Greco-Roman views of law, reason and faith, and duties of the individual." Overview entries on Judaism and Christianity as well as entries on the history of science and contemporary issues within each.
Florida	"The student knows that the value of a technology may differ for different people and at different times….The student knows that scientific knowledge is used by those who engage in design and technology to solve practical problems, taking human values and limitations into account." Entries on Intelligent Design; Value; Science, Origins of; Philosophy of Science; Worldview.	"The student knows the significant ideas and texts of Buddhism, Christianity, Hinduism, Islam, and Judaism, their spheres of influence in the age of expansion, and their reforms in the 19th century." Overview entries on Buddhism; Christianity; Hinduism; Islam; Judaism; as well as entries on the history of science and religion and contemporary issues within each.	"The student understands potent controversy regarding the validity of health information, products, and services…. The student knows how to evaluate factors that influence personal selection of health products and services." Entries on Abortion; DNA; Gene Therapy; Medicine, Alternative; Placebo Effect; Reproductive Technology; Spirituality and Health; Stem Cell Research.	"The student understands past and present trends in human migration and cultural interaction and their impact on physical and human systems." Entries on Biological Diversity; Development, Social and Economic; Evolution, Biocultural; Evolution, Human; Global Warming; Greenhouse Effect; Human Ecology.	"The student understands the importance of a sense of responsibility, a commitment to peer review, truthful reporting of the methods and outcomes of investigations, and making the public aware of the findings." Entries on Ecology, Ethics of; Genetic Engineering; Medical Ethics; Morality; Technology and Ethics; Value.

Illinois	"Students will be able to compare ways in which social systems are affected by political, environmental, economic and technological changes." Entries on Biotechnology; Economics; Eugenics; Genetic Testing; Global Warming; Human Genome Project; Technology and Religion.	"Students will be able to analyze the relationship between an issue in world environmental history and the related aspects of political, economic and social history." Entries on Ecology, Religious and Philosophical Aspects; Ecofeminism; Global Warming; Greenhouse Effect; Nuclear Energy.	"Students will be able to explain immediate and long-term impacts of health decisions to the individual, family and community." Entries on Abortion; Gene Therapy; Genetic Testing; Medicine, Alternative; Reproductive Technology; Spirituality and Faith Healing.	"Students will be able to analyze the costs, benefits and effects of scientific and technological policies at the local, state, national and global levels (e.g., genetic research, Internet access)." Entries on Ecology; Eugenics; Gene Patenting; Genetic Testing; Information Technology; Scopes Trial.	"Students will be able to analyze a particular occupation to identify decisions that may be influenced by a knowledge of science." Entries on Astronomy; Biology; Biotechnology; Chemistry; Medicine; Neurosciences; Psychology; Physics.
New York	"Students explain how technological change affects people, places, and regions." Entries on Biology; DNA; Gene Therapy; Global Warming; Information Technology; Life Sciences; Medicine, Reproductive Technologies; Stem Cell Research.	"Students prepare essays and oral reports about the important social, political, economic, scientific, technological, and cultural developments, issues, and events from New York State and United States history." Entries on Abortion; Eugenics; Evolution; Nuclear Energy.	"Students analyze how cultural beliefs influence health behaviors and the use of health products and services." Entries on Feminisms and Science; Funda-mentalism; Science and Religion in Public Communication; Scriptural Inter-pretation; as well as entries on issues within the religious traditions.	"Students discuss how applications of information technology can address some major global problems and issues." Entries on Global Warming; Information; Information Technology.	"Students discuss the environmental, ethical, moral, and social issues raised by the use and abuse of information technology." Entries on Information Technology; Technology and Ethics.
Texas	"The student is expected to describe the connection between scientific discoveries and technological innovations and new patterns of social and cultural life in the 20th century." Entries on Astrophysics; Big Bang Theory; Chaos Theory; Einstein, Albert; Heisenberg's Uncertainty Principle; Physics, Particle; Postmodern Science; Virtual Reality.	"The student is expected to compare the historical origins, central ideas, and the spread of major religious and philosophical traditions ... and identify examples of religious influence in historic and contemporary world events." See Florida history standard, above; also entries on Chinese Religions; Deism; Faith; Fundamentalism; Monotheism; Shinto.	"The student is expected to analyze examples of attitudes, beliefs, and behaviors related to changes in available technology; and evaluate the impact of changes in technology on personal growth and development." Entries on Abortion; DNA; Gene Therapy; Medicine, Alternative; Placebo Effect; Reproductive Technology; Spirituality and Health; Stem Cell Research.	The student is expected to compare ways that humans depend on, adapt to, and modify the physical environment using local, state, national, and international human activities in a variety of cultural and technological contexts." Entries on Artificial Life; Biotechnology; Forces of Nature; Greenhouse Effect; Reproductive Technology; Robotics.	"The student is expected to evaluate a current ethical issue that has resulted from scientific discoveries and/or technological innovations." Entries on Animal Rights; Genetic Engineering; Global Warming; Medical Ethics; Nuclear Energy; Technology and Ethics; Xeno-transplantation..

All standards are for high school unless otherwise noted.

Standards of the National Center for History in the Schools (NCHS) can be found at http://www.sscnet.ucla.edu/nchs/standards/
Information on standards of the National Council for Social Studies (NCSS) can be found at http://www.ncss.org/
California standards can be found at http://www.cde.ca.gov/standards/
Florida standards can be found at http://www.firn.edu/doe/curric/prek12/frame2.htm
Illinois standards can be found at http://www.isbe.state.il.us/ils/
New York standards can be found at http://www.emsc.nysed.gov/ciai/pub.html
Texas standards can be found at http://www.tea.state.tx.us/teks/