

NATIONAL STANDARDS SYNOPSIS

Creative Problem Solving and Inventive Thought has long been identified as an essential Twenty-first Century Skill by the U.S. Patent Office (USPTO); as well as the North Central Regional Educational Laboratory (NCREL) among others. Through problem identification and creating solutions through prototype development – students integrate many important life-long skills, in real world, project based, multi-disciplinary activities.

As a nation – we will rely on these skills – and the young people who excel in them – to lead us successfully into the future in an ever increasingly competitive world market.

What follows is a composite of the NATIONAL STANDARDS supported by the USPTO’s Project Excel – on which the Invention Convention’s Learning Curriculum is based. OHIO Standards alignment in Technology, Math, Science & Language Arts is in process and will be forthcoming shortly.

ENGLISH LANGUAGE ARTS

NCTE/National Council of Teachers of English and IRA/International Reading Association Standards for the English Language Arts.
www.ncte.org

		1	2	3	4	5	6	7	8
Standard 1	Reading for Perspective	X	X			X			X
Standard 3	Evaluation Strategies	X	X				X		X
Standard 4	Communication Skills		X	X	X	X	X	X	X
Standard 5	Communication Strategies			X	X		X		X
Standard 6	Applying Knowledge	X	X	X			X		X
Standard 7	Evaluating Data		X	X	X				X
Standard 8	Developing Research Skills	X	X			X			X
Standard 11	Participating in Society		X	X	X	X	X	X	X
Standard 12	Applying Language Skills	X	X	X	X	X	X	X	X

TECHNOLOGY

NETS/National Educational Technology Standards for Students Technology Foundation Standards
www.cnets.iste.org

		1	2	3	4	5	6	7	8
Standard 1	Basic Operations & Concepts	X				X	X		X
Standard 2	Social, Ethical and Human Issues	X	X	X	X	X	X		X
Standard 3	Technology Productive Tools		X			X	X		X
Standard 4	Technology Communication Tools	X	X						X
Standard 5	Technology Research Tools	X	X		X	X	X		X
Standard 6	Technology Problem-Solving/ Decision Making Tools						X	X	

SCIENCE

NSTA/National Science Teachers Association National Education Standards

www.nap.edu/books

		1	2	3	4	5	6	7	8
Standard A	Science as Inquiry	X	X	X	X		X	X	X
Standard B	Physical Science							X	
Standard E	Science and Technology	X	X	X	X		X	X	X
Standard F	Science in Personal & Social Perspectives	X	X	X	X	X	X	X	X
Standard G	History & Nature of Science	X	X	X	X		X	X	X

SOCIAL SCIENCE: ECONOMICS

NCEE/National Council on Economic Education, National Standards for Economics Education

www.ncee.net/ea/standards

		1	2	3	4	5	6	7	8
Standard 8	Role of Price in Market System						X		
Standard 9	Role of Competition						X		
Standard 14	Profit and the Entrepreneur					X	X		X
Standard 15	Growth		X		X				
Standard 16	Role of Government	X				X	X		

FINE ARTS: VISUAL ARTS

Consortium of National Arts Education Associations. National Standards for Arts Education
educationworld.com/standards/national/arts/index.shtml

		1	2	3	4	5	6	7	8
Standard 1	Understanding & Applying Media, Techniques and Processes	X	X	X	X		X	X	
Standard 2	Using Knowledge of Structures And Functions	X	X		X	X	X	X	X
Standard 3	Choosing and Evaluating a Range of Subject Matter, Symbols and Ideas	X	X		X	X	X	X	X
Standard 5	Reflecting Upon and Assessing the Characteristics and Merits of Their Work And the Work of Others			X					X
Standard 6	Making Connections Between Visual Arts and Other Disciplines		X	X			X	X	

