

National Standards Matrix

Inventive thinking has been identified as an essential Twenty-first Century Skill by the U.S. Patent Office (PTO), by the North Central Regional Educational Laboratory (NCREL), and by others. By identifying a problem and finding a solution through inventing a unique product or by adapting an existing product, students integrate a number of important skills in real-world, project-based, multi-disciplinary activities.

	1	2	3	4	5	6	7	8
ENGLISH LANGUAGE ARTS								
NCTE—National Council of Teachers of English and IRA-International Reading Association/Standards for the English Language Arts www.ncte.org								
Standard 1. Reading for Perspective	•	•			•			•
Standard 3. Evaluation Strategies	•	•				•		•
Standard 4. Communication Skills		•		•	•	•	•	•
Standard 5. Communication Strategies			•	•		•		•
Standard 6. Applying Knowledge	•	•	•			•		•
Standard 7. Evaluating Data		•	•	•				•
Standard 8. Developing Research Skills	•	•			•			•
Standard 11. Participating in Society		•	•	•	•	•	•	•
Standard 12. Applying Language Skills	•	•	•	•	•	•	•	•

TECHNOLOGY								
NETS—National Educational Technology Standards for Students Technology Foundation Standards www.cnets.iste.org								
Standard 1. Basic Operations and Concepts	•				•	•		•
Standard 2. Social, Ethical and Human Issues	•	•	•	•	•	•		•
Standard 3. Technology Productivity Tools		•			•	•		•
Standard 4. Technology Communications Tools	•	•						
Standard 5. Technology Research Tools	•	•		•	•	•		•
Standard 6. Technology Problem-Solving/ Decision-Making Tools						•	•	

SCIENCE								
NSTA—National Science Teachers Association National Science Education Standards www.nap.edu/books								
Content Standard A: Science as Inquiry	•	•	•	•		•	•	•
Content Standard B: Physical Science						•		
Content Standard E: Science and Technology	•	•	•	•		•	•	•
Content Standard F: Science in Personal and Social Perspectives	•	•	•	•	•	•	•	•
Content Standard G: History and Nature of Science	•	•	•	•		•	•	•

SOCIAL SCIENCE: ECONOMICS								
NCEE—National Council on Economic Education, National Standards for Economics Education www.ncee.net/ea/standards/								
Standard 8. Role of Price in Market System						•		
Standard 9. Role of Competition						•		
Standard 14. Profit and the Entrepreneur					•	•		•
Standard 15. Growth		•		•				
Standard 16. Role of Government	•				•	•		

FINE ARTS: VISUAL ARTS								
Consortium of National Arts Education Associations. National Standards for Arts Education educationworld.com/standards/national/arts/index.shtml								
Standard 1. Understanding and Applying Media, Techniques, and Processes	•	•	•	•		•	•	
Standard 2. Using Knowledge of Structures and Functions	•	•		•	•	•	•	•
Standard 3. Choosing and Evaluating a Range of Subject Matter, Symbols, and Ideas	•	•		•	•	•	•	•
Standard 5. Reflecting Upon and Assessing the Characteristics and Merits of Their Work and the Work of Others			•					•
Standard 6. Making Connections Between Visual Arts and Other Disciplines		•	•			•	•	