


















































NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

SCIENCE STANDARDS








		ACTIVITIES							
STANDARDS		1	2	4	5	7	8	19	20
<u>Science as Inquiry</u>	Abilities necessary to do scientific inquiry								
	Understandings about scientific inquiry								
	Position and motion of objects								
	Objects in the sky								
<u>Science and Technology</u>	Abilities of technological design								
	Understanding about science and technology								
	Abilities to distinguish between natural objects and objects made by humans								
<u>History and Nature of Science</u>	Science as a human endeavour								



NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

MATHEMATICS STANDARDS




































































		ACTIVITIES																
<u>STANDARDS</u>		2	3	5	6	7	8	9	11	12	13	14	15	16	17	18		
<u>Numbers and Operations</u>	Understand numbers, ways of representing numbers, relationships among numbers, and number systems																	
	Understand meanings of operations and how they relate to each other																	
	Compute fluently and make reasonable estimates																	
<u>Algebra</u>	Understand patterns, relations, and functions																	
<u>Geometry</u>	Analyze characteristics and properties of 2- and 3-dimensional geometric shapes and develop mathematical arguments about geometric relationships																	
	Specify locations and describe spatial relationships using coordinate geometry and other representational systems																	
	Apply transformations and use symmetry to analyze mathematical situations																	
	Use visualization, spatial reasoning, and geometric modeling to solve problems																	
<u>Measurement</u>	Understand measurable attributes of objects and the units, systems, and processes of measurement																	
	Apply appropriate techniques, tools, and formulas to determine measurements																	
<u>Data Analysis and Probability</u>	Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them																	
	Select and use appropriate statistical methods to analyze data																	
	Develop and evaluate inferences and predictions that are based on data																	



NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

MATHEMATICS STANDARDS (CONTINUED)















































		ACTIVITIES															
<u>STANDARDS</u>		2	3	5	6	7	8	9	11	12	13	14	15	16	17	18	
<u>Problem Solving</u>	Build new mathematical knowledge through problem-solving																
	Solve problems that arise in mathematical and in other contexts																
	Apply and adapt a variety of appropriate strategies to solve problems																
	Monitor and reflect on the process of mathematical problem solving																
<u>Communication</u>	Organize and consolidate mathematical thinking through communication																
	Communicate mathematical thinking coherently and clearly to peers, teachers, and others																
	Analyze and evaluate the mathematical thinking and strategies of others																
	Use the language of mathematics to express mathematical ideas precisely																
<u>Connections</u>	Recognize and apply mathematics in contexts outside of mathematics																
<u>Representation</u>	Create and use representations to organize, record, and communicate math ideas																
	Select, apply, and translate among mathematical representations to solve problems																
	Use representations to model and interpret physical, social, and mathematical phenomena																



NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

TECHNOLOGY STANDARDS























		ACTIVITIES									
STANDARDS		1	2	3	4	5	6	7	8	9	19
<u>Characteristics and Scope</u>	Natural world and human-made world										
	People and technology										
<u>Cultural, Social, Economic, Political Effects</u>	Helpful or harmful										
<u>Role of Society in the Development and Use</u>	Needs and wants of individuals										
<u>Attribute of Design</u>	Everyone can design										
	Design is a creative process										
<u>Engineering Design</u>	Engineering design process										
	Engineering design ideas to others										
<u>Troubleshooting, Research, Development, Invention, Innovation, Experimentation in Problem Solving</u>	Asking questions and making observations										
<u>Apply Design Processes</u>	Solve problems through design										
	Build something										
	Investigate how things are made										
<u>Use and Maintain Products and Systems</u>	Discover how things work										
<u>Transportation</u>	Transportation systems										
	Individuals and goods										
	Care of transportation products and systems										



NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

ENGLISH LANGUAGE ARTS STANDARDS










ACTIVITIES																		
STANDARDS	1	2	3	4	5	7	8	9	10	11	13	14	15	17	18	19	20	
Students read wide range of print and nonprint texts to understand texts, themselves, cultures; to acquire new information; for personal fulfillment; texts are fiction, classic, and contemporary																		
Students read a wide range of literature in many genres to build understanding																		
Students apply wide range of strategies to comprehend, interpret, evaluate, and appreciate texts; draw on prior experience; interactions; show knowledge of word meanings; apply word identification strategies; show understanding of textual features																		
Students adjust use of spoken, written, and visual language to communicate effectively with different audiences for variety of purposes																		



NATIONAL EDUCATION STANDARDS

ACTIVITY MATRIX

ENGLISH LANGUAGE ARTS STANDARDS (CONTINUED)

ACTIVITIES																			
<u>STANDARDS</u>	1	2	3	4	5	7	8	9	10	11	13	14	15	17	18	19	20		
Students employ a wide range of strategies as they write and use different writing process elements to communicate effectively with different audiences for variety of purposes																			
Students apply knowledge of language structure, conventions, media techniques, figurative language to create, critique, discuss print and nonprint texts																			
Students conduct research by generating ideas and questions; posing problems; gathering, evaluating, synthesizing data from variety of data sources to communicate discoveries to suit their purpose and audience																			
Students participate as knowledgeable, reflective, creative, critical members of literacy communities																			
Students use spoken, written, visual language to accomplish their own purposes	