

National Standards and Benchmarks

Standards	Benchmarks	Lesson 1	Lesson 2	Lesson 3	Student Magazine	Teacher Edition
Grades 3–5						
SCIENCE						
Understands forces and motion	Knows that when a force is applied to an object, the object either speeds up, slows down, or goes in a different direction				•	•
	Knows the relationship between the strength of a force and its effect on an object					•
Understands the nature of scientific knowledge	Knows that good scientific explanations are based on evidence and scientific knowledge				•	
Understands the nature of scientific inquiry	Plans and conducts simple investigations				•	
MATH						
Uses basic and advanced procedures while performing the processes of computation	Performs basic mental computations				•	
	Solves real-world problems involving number operations				•	
	Knows the language of basic operations				•	
LANGUAGE ARTS: READING						
Uses the general skills and strategies of the reading process	Establishes a purpose for reading	•	•	•	•	•
Uses reading skills and strategies to understand and interpret a variety of informational texts	Uses reading skills and strategies to understand a variety of informational texts	•	•	•	•	•
	Summarizes and paraphrases information in texts	•			•	•
	Understands level-appropriate reading vocabulary					•
SOCIAL STUDIES						
Provides for the study of people, places, and environments	Interprets, uses, and distinguishes various representations of the earth, such as maps, globes, and photographs		•			
	Estimates distance and calculates scale		•			
Provides for the study of global connections and interdependence	Explores ways that language, art, music, belief systems, and other cultural elements may facilitate global understanding or lead to misunderstanding	•				
Provides for the study of the ideals, principles, and practices of citizenship in a democratic republic	Identifies examples of rights and responsibilities of citizens			•		
GRADE 6						
SCIENCE						
Understands forces and motion	Knows that an object's motion can be described and represented graphically according to its position, direction of motion, and speed				•	•
Understands the nature of scientific knowledge	Understands the nature of scientific explanations				•	•
Understands the nature of scientific inquiry	Uses appropriate tools (including computer hardware and software) and techniques to gather, analyze, and interpret scientific data					•
MATH						
Uses basic and advanced procedures while performing the processes of computation	Uses proportional reasoning to solve mathematical and real-world problems				•	
	Adds, subtracts, multiplies, and divides integers and rational numbers				•	
LANGUAGE ARTS: READING						
Uses the general skills and strategies of the reading process	Establishes and adjusts purposes for reading	•	•	•	•	•
Uses reading skills and strategies to understand and interpret a variety of informational texts	Uses reading skills and strategies to understand a variety of informational texts	•	•	•	•	•
	Summarizes and paraphrases information in texts				•	•
	Uses a variety of strategies to extend reading vocabulary					•
SOCIAL STUDIES						
Provides for the study of people, places, and environments	Creates, interprets, uses, and distinguishes various representations of the earth, such as maps, globes, and photographs		•			
	Estimates distance, calculates scale, and distinguishes other geographic relationships		•			
Provides for the study of global connections and interdependence	Describes instances in which language, art, music, belief systems, and other cultural elements can facilitate global understanding or cause misunderstanding	•				
Provides for the study of the ideals, principles, and practices of citizenship in a democratic republic	Identifies and interprets sources and examples of the rights and responsibilities of citizens			•		

Sources: McREL (Mid-Continent Research for Education and Learning), International Reading Association (IRA), National Council of Teachers of English (NCTE), National Council of Social Studies Teachers.