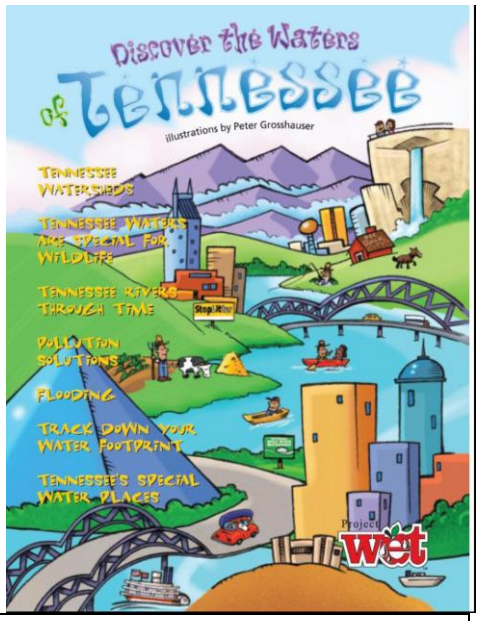
Discover the Waters of Tennessee

6th GRADE



"Tennessee Waters are Special for Wildlife" pages 4, 5

SCIENCE	
Life Science - Interdependence	GLE 0607.2.1 Examine the roles of consumers, producers, and decomposers in a biological community GLE 0607.2.2 Describe how matter and energy are transferred through an ecosystem GLE 0607.2.3 Draw conclusions from data about interactions between the biotic and abiotic elements of a particular environment GLE 0607.2.4 Analyze the environments and the interdependence among organisms found in the world's major biomes ☑ 0607.2.1 Compare and contrast the different methods used by organisms to obtain nutrition in a biological community ☑ 0607.2.3 Use a food web or energy pyramid to demonstrate the interdependence of organisms within a specific biome SPI 0607.2.1 Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web SPI 0607.2.2 Interpret how materials and energy are transferred through an ecosystem SPI 0607.2.3 Indentify the biotic and abiotic elements of the major biomes SPI 0607.2.4 Identify the environmental conditions and interdependences among organisms found in the major biomes

“Tennessee Rivers through Time” pages 6, 7

SCIENCE	
Embedded Technology & Engineering	GLE 0607.T/E.1 Explore how technology responds to social, political, and economic needs GLE 0607.T/E.3 Compare the intended benefits with the unintended consequences of a new technology

“Pollution Solution” pages 8, 9

SCIENCE	
Embedded Technology & Engineering	GLE 0607.T/E.3 Compare the intended benefits with the unintended consequences of a new technology

“Flooding” pages 10, 11

SCIENCE	
Embedded Inquiry	GLE 0607.Inq.2.Identify tools and techniques needed to gather, organize, analyze, and interpret data collected from a moderately complex scientific investigation GLE 0607.Inq.3 Synthesize information to determine cause and effect relationships between evidence and explanations ☑0607.Inq.4 Review an experimental design to determine possible sources of bias or error, state alternative explanations, and identify questions for further investigations SPI 0607.Inq.3 Interpret and translate data into a table, graph, or diagram SPI 0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence
MATH	
Strand 19: Tables, Graphs and Charts	A. Identify correct information from tables, bar graphs, pictographs, and charts B. Create bar graphs and pictographs from data in tables and charts
Strand 20: Statistics and Data Analysis	A. Drop reasonable conclusions from data in tables, bar graphs, pictographs, circle graphs and charts B. Solve problems involving means, medians, and modes of sets of data

"Track Down Your Water Footprint" pages 12, 13

SCIENCE	
Embedded Inquiry	GLE 0607.Inq.2 Use appropriate tools and techniques to gather, organize, analyze, and interpret data GLE 0607.Inq.5 Communicate scientific understanding using descriptions, explanations, and models SPI 0607.Inq.3 Interpret and translate data into a table, graph, or diagram SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error
MATH	
Strand 19: Tables, Graphs and Charts	A. Identify correct information from tables, line graphs, bar graphs, stem-and-leaf plots, and charts B. Create bar graphs, and line graphs from data in tables and charts
Strand 20: Classification and Logical Reasoning	A. Draw reasonable conclusions from data in tables, pictographs, line graphs, circle graphs, stem-and-leaf plots, and charts B. Solve problems involving means, medians, and modes of sets of data

Please: share your feedback and reward your class with a Certificate of Completion!!

CONTACT: Cynthia Allen, callen@mtsu.edu, 615-898-2660,
WaterWorks! Coordinator
MTSU 's Center for Environmental Education

Special thanks to Bonnie Ervin, Kathy DeWein and Michelle Rogers for their assistance correlating the standards.