

GATE Elementary Curriculum Guide



Updated 8/3/2023

The purpose of this Curriculum Guide is to provide current families with resources and information that we utilize here within GATE classrooms.

Click on these links to navigate to:

[Elementary \(2-5\) Handbook](#)

[Middle School \(6-8\) Handbook](#)

Our Mission:

We are dedicated to ensuring our educational experiences fit the needs of each student, offering ability-based and mixed age academic groupings, and providing support for the social and emotional needs of our student population.

Our Vision:

Grow our hearts...

Grow our minds...

Grow our future!

District & State Assessments:

GATE students take the following assessments each year:

	Fall	Winter	Spring
<u>NWEA Math & Reading</u>	✓	✓	✓
<u>M-Step</u>			✓

Classroom Assessments:

Teachers use both formative (short, to inform teaching and learning) and summative (cumulative, final) assessments in the classroom in each content area.

Science

Standards: [Next Generation Science Standards \(NGSS\)](#)

Primary Resource: [FOSS](#) *Students may take the science text home each night to help study

Secondary Resource: [Newsela Science](#)

Additional Free Online Resources:

[Climate Kids](#) [National Geographic Kids](#) [Nova](#) [Smithsonian](#)

Learning Progression:

*GATE students rotate learning about science and social studies in an on/off cycle.

Grade	Physical Science	Earth Science	Life Science	STEM Enrichment
5	Mixtures & Solutions	Earth & Sun	Living Systems	Sound Design†
4	Energy	Soils, Rocks, and Landforms	Environments	
3	Motion & Matter	Water & Climate	Structures of Life	
2	Solids & Liquids	Pebbles, Sand & Silt	Insects & Plants	Forces in Action†
1	Sound & Light	Air & Weather	Plants & Animals	
K	Materials & Motion	Trees & Weather	Animals Two by Two	
Pre-K	Full-year Observing Nature			

† STEM courses and modules can be purchased as a supplement to the FOSS curriculum or purchased separately for STEM electives or extracurricular activities.

English Language Arts

Standards: [Common Core Standards](#)

Primary Resource: [Wit & Wisdom](#)

Student Access: [Log in to Clever](#). Students can have access to all units. Student user:

@Avondaleschools.org email address Password: Student ID #

Secondary Resource: [Newsela](#)

[Khan Academy](#)

Learning Progression:

GATE Grade Level	Wit & Wisdom Grade Level Units
2nd	2nd Grade Level Units
3rd	3rd Grade Level Units
4th	5th Grade Level Units
5th	6th Grade Level Units

2	1	A Season of Change	Adena	Tomie dePaola
			<i>How Do You Know It's Fall?</i>	Lisa M. Herrington
			<i>The Little Yellow Leaf</i>	Carin Berger
			<i>A Color of His Own</i>	Leo Lionni
			<i>Why Do Leaves Change Color?</i>	Betsy Maestro
	2	The American West	<i>Sky Tree: Seeing Science Through Art</i>	Thomas Locker
			<i>The Buffalo Are Back</i>	Jean Craighead George
			<i>Journey of a Pioneer</i>	Patricia J. Murphy
			<i>Plains Indians</i>	Andrew Santella
			<i>Johnny Appleseed</i>	Steven Kellogg
			<i>The Story of Johnny Appleseed</i>	Aliki
			<i>John Henry: An American Legend</i>	Ezra Jack Keats
			<i>John Henry</i>	Julius Lester
	3	Civil Rights Heroes	<i>The Legend of the Bluebonnet</i>	Tomie dePaola
			<i>I Have a Dream *</i>	Martin Luther King Jr. and Kadir Nelson
			<i>Martin Luther King, Jr. and the March on Washington</i>	Frances E. Ruffin
			<i>Ruby Bridges Goes to School: My True Story</i>	Ruby Bridges
			<i>The Story of Ruby Bridges</i>	Robert Coles
	4	Good Eating	<i>Separate Is Never Equal: Sylvia Mendez and Her Family's Fight for Desegregation</i>	Duncan Tonatiuh
			<i>The Digestive System</i>	Christine Taylor-Butler
			<i>The Vegetables We Eat</i>	Gail Gibbons
			<i>Stone Soup *</i>	Marcia Brown
			<i>Good Enough to Eat: A Kid's Guide to Food and Nutrition</i>	Lizzy Rockwell
			<i>The Digestive System</i>	Jennifer Prior
			<i>Bone Button Borscht</i>	Aubrey Davis

Grade	Mod.	Title	Core Text Title	Author
3	1	The Sea	<i>The Fantastic Undersea Life of Jacques Cousteau</i>	Dan Yaccarino
			<i>Giant Squid: Searching for a Sea Monster</i>	Mary Cerullo and Clyde F. E. Roper
			<i>Shark Attack!</i>	Cathy East Dubowski
			<i>Ocean Sunlight: How Tiny Plants Feed the Seas</i>	Molly Bang and Penny Chisholm
			<i>Amos and Boris *</i>	William Steig
	2	Outer Space	<i>Starry Messenger: Galileo Galilei *</i>	Peter Sis
			<i>Moonshot: The Flight of Apollo 11</i>	Brian Floca
			<i>One Giant Leap</i>	Robert Burleigh
			<i>Zathura: A Space Adventure</i>	Chris Van Allsburg
	3	A New Home	<i>Coming to America: The Story of Immigration</i>	Betsy Maestro
			<i>Grandfather's Journey *</i>	Allen Say
			<i>Tea with Milk</i>	Allen Say
			<i>Family Pictures (English and Spanish)</i>	Carmen Lomas Garza
	4	Artists Make Art	<i>The Keeping Quilt</i>	Patricia Polacco
			<i>Emma's Rug</i>	Allen Say
			<i>When Marian Sang: The True Recital of Marian Anderson, the Voice of the Century</i>	Pam Muñoz Ryan
			<i>Action Jackson *</i>	Jan Greenberg and Sandra Jordan
			<i>A River of Words: The Story of William Carlos Williams *</i>	Jen Bryant
			<i>Alvin Ailey</i>	Andrea Davis Pinkney

4	1	A Great Heart	Love That Dog	Sharon Creech
			The Circulatory Story	Mary K. Corcoran
	2	Extreme Settings	Hatchet *	Gary Paulsen
			Mountains	Seymour Simon
			SAS Survival Handbook, Third Edition: The Ultimate Guide to Surviving Anywhere	John "Lofty" Wiseman
	3	The Redcoats Are Coming!	Colonial Voices: Hear Them Speak	Kay Winters
			George vs. George: The American Revolution as Seen from Both Sides	Rosalyn Schanzer
			The Scarlet Stockings Spy	Trinka Hakes Noble
			Woods Runner	Gary Paulsen
	4	Myth Making	Understanding Greek Myths	Natalie Hyde
Gifts from the Gods: Ancient Words & Wisdom from Greek & Roman Mythology			Lisa Lunge-Larsen	
Pushing Up the Sky: Seven Native American Plays for Children			Joseph Bruchac	
Walk Two Moons *			Sharon Creech	

5	1	Cultures in Conflict	Thunder Rolling in the Mountains	Scott O'Dell
	2	Word Play	The Phantom Tollbooth	Norton Juster
	3	A War Between Us	The Boys' War: Confederate and Union Soldiers Talk About the Civil War *	Jim Murphy
			The River Between Us *	Richard Peck
	4	Breaking Barriers	We Are the Ship: The Story of Negro League Baseball *	Kadir Nelson

Mathematics

Standards: [Common Core Standards](#)

Primary Resource: [Big Ideas Textbook Access](#) (Modeling Real Life) & [Extra Resources](#)

Secondary Resource: Exemplars

Additional Resources:

[Khan Academy](#)

Learning Progression:

*Students are given pre assessments at the start of each school year. Combined with our NWEA results and the previous year's data, teachers place students into the "best fit" math level for them.

2nd Grade	3rd Grade	4th Grade	5th Grade	6th	7th
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Math	Math	Math	Math	Advanced	Advanced
Numbers and Arrays Fluency and Strategies within 20 Addition to 100 Strategies Fluently Add within 100 Subtraction to 100 Strategies Fluently Subtract within 100 Understand Place Value to 1,000 Count and Compare Numbers to Add Numbers within 1,000 Subtract Numbers within 1,000 Measure and Estimate Lengths Solve Length Problems Represent and Interpret Data Money and Time Identify and Partition Shapes	Understand Multiplication and Division Multiplication Facts and Strategies More Multiplication Facts and Strategies Division Facts and Strategies Patterns and Fluency Relate Area to Multiplication Round and Estimate Numbers Add and Subtract Multi-Digit Numbers Multiples and Problem Solving Understand Fractions Understand Fraction Equivalence Understand Time, Liquid Volume Classify Two-Dimensional Shapes Represent and Interpret Data Find Perimeter and Area	Place Value Concepts Add and Subtract Multi-Digit Numbers Multiply by One-Digit Numbers Multiply by Two-Digit Numbers Divide Multi-Digit Numbers by One-Digit Numbers Factors, Multiples, and Patterns Understand Fraction Equivalence Add and Subtract Fractions Multiply Whole Numbers and Fractions Relate Fractions and Decimals Understand Measurement Equivalence Use Perimeter and Area Formulas Identify and Draw Lines and Angles Identify Symmetry and Two-Dimensional Shapes	Place Value Concepts Numerical Expressions Add and Subtract Decimals Multiply Whole Numbers Multiply Decimals Divide Whole Numbers Divide Decimals Add and Subtract Fractions Multiply Fractions Divide Fractions Convert and Display Units of Measurement Patterns in the Coordinate Plane Understand Volume Classify Two-Dimensional Shapes	Numerical Expressions and Factors Fractions and Decimals Ratios and Rates Percents Algebraic Expressions and Properties Equations Area, Surface Area, and Volume Integers, Number Lines, and the Coordinate Plane Statistical Measures Data Displays Adding and Subtracting Rational Numbers Multiplying and Dividing Rational Numbers Expressions Ratios and Proportions Percents	Equations Transformations Angles and Triangles Graphing and Writing Linear Equations Systems of Linear Equations Data Analysis and Displays Functions Exponents and Scientific Notation Real Numbers and the Pythagorean Theorem Volume and Similar Solids Equations and Inequalities Probability Statistics Geometric Shapes and Angles Surface Area and Volume

Social Studies

Standards: [Michigan Social Studies Standards](#)

Primary Resource: [Updated 5th Grade OS Units](#) (OS [Atlas](#)) 2nd–4th Units in Development

Secondary Resources – [Michigan Studies Weekly](#) & [Newsela Social Studies](#) *Students have online access through their Clever account

Additional Resource – [Open Source Textbooks](#)

Learning Progression:

*GATE students rotate learning about science and social studies in an on/off cycle.

Lesson	2nd Grade	3rd Grade	4th Grade	5th Grade
1	Community	Government	Developing Questions and Planning Inquiries	Review of Government

2	Rules and Laws	Structure of Government	Sources	Review of Geography
3	Principles of Democracy	Conflict and Compromise	Analyzing and Evaluating Evidence	Review of Economics
4	Important Documents	Citizens	Communicating Conclusions	Developing Inquiries
5	Purpose and Structure of Government	Patriotism and National Symbols	Engaging in Your Own Inquiry	Sources
6	Government Services	Important Documents	Government	Analyzing and Evaluating Evidence
7	Citizens	Take a Stand on a Public Issue	Founders	Communicating Conclusions
8	Patriotism	Map Skills	Important Documents	Engaging in Your Own Inquiry
9	Patriotic Symbols	The Five Themes	The Bill of Rights	Life in Africa
10	Memorials and Monuments	Location	Michigan Government	The Vibrant Societies of Pre-Columbian North America
11	National Holidays	Place: Physical Characteristics	Citizens	Life in Pre-Columbian North America
12	Founders	Place: Human Characteristics	Citizens and American Democracy	The Age of Encounters
13	Culture	Human-Environment Interaction	Active Civic Participation	Consequences and Contact
14	Sources	Movement	Five Themes of Geography	The Colonies and Their Founding
15	Map Skills	Regions of Michigan	Map Skills	Jamestown
16	The Five Themes of Geography	Wants and Needs	Place	Plymouth
17	Location	Resources	Human-Environment Interaction	Colonial Life
18	Place: Physical Characteristics	Producers and Consumers	Threats to Michigan's Environment	Clash of the Empires

19	Place: Human Characteristics	Economic Principles	Movement	Consequences of the French and Indian War
20	Human-Environment Interaction	Personal Finances	Immigration and Migration in Michigan	The Acts of Parliament
21	Movement	Michigan's Economy	Culture	The Actions of the Colonies
22	Regions of the World	Timelines	Regions of the US	The Shot Heard Round the World
23	Michigan Geography, People, and Economics	Developing Inquiries	Regions of Michigan	Independence and Revolution – The People
24	Economic Resources	Sources	Needs and Wants	Independence and Revolution – The Military
25	Goods and Services	Examining Evidence and Communicating Conclusions	Resources	The Founders and Process
26	Economic Principles	Taking Action	Economic Principles	Constitution
27	Economic Activity	Engage in Your Own Inquiry	Personal Finance	Bill of Rights
28	Economic Choices	Indigenous People of Michigan	Economic Systems	The New Nation
29	Sequencing and Chronology	Exploration of Michigan	Michigan's Economy	Contemporary Constitutional Issues
30	Innovations Over Time	Early Settlements of Michigan	The Automobile Industry	Citizens
31	Historic Figures	Michigan Statehood	Historical Inquiry	Citizens and American Democracy
32	Solving Problems in Your Community	Important Events to Michigan	The Underground Railroad	Active Civic Participation

Special Area Classes

Students rotate to each of the 3 classes on a bi-weekly basis.

Class	Standards	Curriculum
STEAM Lab	Next Generation Science Standards (NGSS)	Project Lead the Way Teacher-Created
Physical Education	Michigan PE Standards	SHAPE
Art	National Art Standards	Art of Education (FLEX Pro) & Deep Space Sparkle

