(The page numbers listed refer to pages in the Student ACK!tivity Book.)

ENGLISH LANGUAGE ARTS

Content Standard 1: Read and comprehend general and technical material.

1. Use reading for multiple purposes.

Pages 1-4, 5-6, 7, 8, 9, 10-11, 12, 13, 14-15, 16, 17, 18-19, 20-21, 25, 28, 29, 31, 34, 36, 37, 38, 39-41, 42, 43, 44, 45, 46, 47, 48, 49, 50-51, 52, 53, 54, 56, 59, 60, Performance Assessment.

2. Read a variety of texts with developing fluency.

Pages 1-4, 5-6, 8, 12, 13, 14-15, 16, 17, 18-19, 20-21, 22, 23-24, 25, 28, 29, 31, 34, 36, 37, 38, 39-41, 42, 43, 44, 45, 46, 47-48, 49, 50-51, 52, 53, 54, 55, 56, 57-58, 59, Performance Assessment.

3. Employ multiple strategies to construct meaning.

Pages 1-4, 5-6, 8, 12, 13, 14-15, 16, 17, 18-19, 20-21, 22, 23-24, 25, 26, 27, 28, 29, 30, 31, 32-33, 34, 36, 37, 38, 39-41, 42, 43, 44, 45, 46, 47-48, 49, 50-51, 52, 53, 54, 55, 56, 59, 60, Performance Assessment.

4. Employ multiple strategies to recognize words.

Pages 1-4, 5-6, 12, 13, 16, 17, 18-19, 20-21, 22, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 38, 42, 43, 44, 45, 46, 49, 50-51, 54, 55, 56, 59, 60.

5. Respond to oral, visual, written and electronic texts.

Pages 1-4, 5-6, 7, 8, 9, 10-11, 12, 13, 14-15, 16, 17, 18-19, 20-21, 25, 28, 29, 31, 34, 36, 37, 38, 39-41, 42, 43, 44, 45, 46, 47, 48, 49, 50-51, 52, 53, 54, 56, 59, 60, Performance Assessment.

Content Standard 2: Demonstrate the ability to write clear and grammatically correct sentences, paragraphs and compositions.

1. Write fluently for multiple purposes.

Pages 5-6, 12, 13, 14-15, 16, 20-21, 22, 23-24, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 46, 47-48, 49, 50-51, 56, 57-58, 59, Performance Assessment.

2. Recognize and use authors' techniques in writing.

Pages 5-6, 16, 20-21, 22, 28, 29, 31, 32-33, 34, 37, 38, 39-41, 42, 47-48, 49, 50-51, 56, 57-58, 59, Performance Assessment.

3. Plan and draft texts using the writing process.

Pages 5-6, 16, 20-21, 22, 28, 29, 31, 32-33, 34, 37, 38, 39-41, 42, 47-48, 49, 50-51, 56, 57-58, 59, Performance Assessment.

4. Identify multiple language conventions and use them to edit text.

Pages 5-6, 7, 16, 20-21, 22, 28, 29, 34, 38, 42, 47-48, 49, 50-51, 56, 59, Performance Assessment.

Content Standard 3: Focus on meaning and communication in listening, speaking, viewing, reading and writing in personal, social, occupational and civic contexts.

1. Integrate listening, speaking, viewing, reading and writing skills for multiple purposes.

Pages 1-4, 5-6, 12, 13, 14-15, 16, 18-19, 20-21, 22, 23-24, 26, 27, 28, 29, 31, 32-33, 34, 37, 38, 39-41, 42, 43, 44, 45, 46, 47-48, 49,

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

ENGLISH LANGUAGE ARTS (continued)

50-51, 54, 55, 56, 57-58, 59, 60, Performance Assessment.

2. Analyze the impact of variables on components of the communication process.

Pages 1-4, 5-6, 7, 12, 13, 14-15, 16, 18-19, 20-21, 22, 23-24, 26, 27, 29, 32-33, 34, 37, 38, 39-41, 42, 43, 44, 45, 49, 55, 56, 57-58, 60.

3. Read and write, speak, listen and interact, view and represent creatively.

Pages 5-6, 9, 10-11, 12, 13, 14-15, 16, 18-19, 20-21, 22, 23-24, 26, 27, 28, 29, 31, 32-33, 34, 37, 38, 39-41, 42, 44, 45, 46, 47-48, 49-50, 51, 53, 54, 55, 56-57, 58, 59, Performance Assessment.

4. Distinguish between verbal and nonverbal communication; practice effective listening and speaking.

Pages 14-15, 18-19, 23-24, 26, 27, 29, 32-33, 34, 37, 39-41, 44, 49, 55, 57-58, 60.

5. Employ strategies to construct meaning while reading, listening to, viewing or creating texts.

Pages 5-6, 12, 13, 16, 20-21, 26, 28, 29, 31, 34, 42, 46, 49, 50-51, 54, 55, 56, 59, Performance Assessment.

6. Use a variety of resources to construct meaning of unfamiliar texts.

Pages 12, 13, 20-21, 25, 28, 29, 31, 42, 45, 46, 49, 50-51, 54, 56, 59.

7. Recognize and use texts as models to construct text, convey meaning and express feelings to influence

an audience.

Pages 5-6, 12, 13, 16, 20-21, 22, 28, 29, 31, 38, 42, 49, 50-51, 55, 56, 59, Performance Assessment.

8. Express responses to oral, visual, written and electronic texts.

Pages 1-4, 5-6, 12, 13, 14-15, 16, 18-19, 20-21, 22, 23-24, 26, 27, 28, 29, 31, 32-33, 34, 37, 38, 39-41, 42, 43, 44, 46, 47-48, 49, 50-51, 55, 56, 57-58, 59, 60, Performance Assessment.

Content Standard 4: Use the English language effectively.

1. Describe language patterns used in spoken, written and visual communication contexts.

Pages 7, 14-15, 16, 23-24, 26, 27, 32-33, 34, 37, 38, 39-41, 45, 57-58, 60.

2. Describe how features of English vary over time and from place to place and how they affect meaning.

Not addressed directly.

3. Recognize how words and phrases relate to their origin.

Pages 13, 28, 31, 43, 45, 49, 50-51, 54, 55, 56.

4. Explore the use of synonyms.

Pages 12, 28, 29, 34, 38, 42, 49, 56, 60.

5. Recognize and use language appropriate for varied con texts and purposes.

Correlated with American Careers For Kids (The page numbers listed refer to pages in the Student ACK!tivity Book.)

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Pages 5-6, 12, 13, 14-15, 16, 18-19, 20-21, 22, 23-24, 26, 27, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 43, 44, 45, 47-48, 49, 56, 57-58, 59, 60, Performance Assessment.

Content Standard 5: Read and analyze a wide variety of classic and contemporary literature and other texts to seek information, ideas, enjoyment and understanding of individuality, our common heritage and common humanity and the rich diversity in our society.

1. Select, read, listen to, view and respond thoughtfully to both classic and contemporary texts recognized for quality and literary merit.

Pages 12, 13, 20-21, 29, 49, 56.

2. Describe and discuss the shared human experiences depicted in literature and other texts from around the world. Examples include birth, death, heroism and love.

Pages 34, 38, 49.

3. Demonstrate awareness that characters and communities in literature and other texts reflect life by portraying both positive and negative images.

Page 49.

4. Describe how various cultures and our common heritage are represented in literature and other texts.

Pages 20-21, 31.

5. Describe how characters in literature and other texts form

opinions about one another in ways that can be fair and unfair.

Not directly addressed.

Content Standard 6: Learn to communicate information

accurately and effectively and demonstrate expressive abilities by creating oral, written and visual texts that enlighten and engage an audience.

1. Use elements of effective communication to enhance relationships.

Pages 5-6, 12, 13, 14-15, 16, 20-21, 22, 28, 29, 32-33, 37, 39-41, 42, 45, 49, 50-51, 55, 56, 60.

2. Explain importance of confidence and presence in personal oral and written communication.

Pages 13, 14-15, 16, 20-21, 22, 23-24, 26, 27, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 43, 44, 47-48, 49, 56, 57-58, Performance Assessment.

3. Identify style and characteristics of individual authors, speakers and illustrators and how they influence audience expectations.

Not directly addressed.

4. Reveal personal voice by explaining growth in learning and accomplishment.

Pages 32-33, 37, 38, 47-48, 57-58, 59, Performance Assessment.

Content Standard 7: Demonstrate, analyze and reflect upon the

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

ENGLISH LANGUAGE ARTS (continued)

skills and processes used to communicate through listening, speaking, viewing, reading and writing.

1. Use varied strategies when working with unfamiliar texts.

Pages 1-4, 5-6, 7, 8, 9, 10-11, 12, 13, 14-15, 16, 18-19, 20-21, 28, 29, 31, 32-33, 42, 43, 44, 45, 46, 47-48, 49, 50-51, 54, 55, 56, 59, 60, Performance Assessment.

2. Monitor progress while using a variety of strategies to overcome challenges when constructing and conveying meaning.

Pages 1-4, 5-6, 7, 8, 9, 10-11, 12, 13, 14-15, 16, 18-19, 20-21, 28, 29, 31, 32-33, 42, 43, 44, 45, 46, 47-48, 49, 50-51, 54, 55, 56, 59, 60, Performance Assessment.

3. Apply new learning by forming questions and setting learning goals to monitor developing literacy.

Pages 32-33, 39-41, 44, 47-48, 57-58, 59, Performance Assessment.

4. Develop and use strategies for applying the writing process.

Pages 5-6, 12, 13, 16, 20-21, 22, 26, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 44, 46-47, 48, 56, 59, Performance Assessment.

Content Standard 8: Explore and use characteristics of different types of texts, aesthetic elements and mechanics--including text structure, figurative and descriptive language, spelling, punctuation and grammar-to construct and convey meaning.

1. Identify and use mechanics in writing.

Pages 5-6, 7, 12, 13, 16, 20-21, 29, 34, 39-41, 42, 44, 49, 59, Performance Assessment.

2. Identify and use elements of various narrative genre and story elements.

Page 49.

3. Identify and use characteristics of various information genre.

Pages 5-6, 12, 13, 16, 20-21, 22, 28, 29, 31, 34, 38, 42, 44, 49, 50-51, 56, 59, Performance Assessment.

4. Identify and use aspects of the craft of the speaker, writer and illustrator to express ideas artistically.

Pages 5-6, 12, 13, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 42, 49, 50-51, 55, 59, Performance Assessment.

5. Describe and use characteristics of various oral, visual and written texts to convey meaning.

Pages 5-6, 12, 13, 20-21, 22, 28, 29, 31, 34, 38, 42, 49, 50-51, 55, 56.

Content Standard 9:

Demonstrate understanding of the complexity of enduring issues and recurring problems by making connections and generating themes within and across texts.

1. Explore and reflect on universal themes and substantive issues.

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

ENGLISH LANGUAGE ARTS (continued)

Pages 5-6, 12, 13, 16, 20-21, 28, 29, 31, 32-33, 34, 37, 38, 42, 49, 50-51, 56, 57-58, 59.

2. Draw parallels and contrasts among key ideas, concepts and varied perspectives from multiple texts.

Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 56.

3. Use conclusions based on understanding of different views to support a position.

Pages 5-6, 12, 13, 16, 20-21, 22, 28, 29, 31, 32-33, 37, 42, 47-48, 49, 50-51, 56.

Content Standard 10: Apply knowledge, ideas and issues drawn from texts to their lives and the lives of others.

1. Identify the influence of experience in understanding key ideas from texts.

Pages 8, 12, 13, 14-15, 16, 20-21, 22, 28, 29, 32-33, 46, 49, 50-51, 54, 56, 60.

2. Combine skills to demonstrate strengthening literacy.

Pages 5-6, 12, 13, 16, 20-21, 22, 28, 29, 31, 42, 43, 44, 46, 49, 50-51, 54, 55, 56, 59, Performance Assessment.

3. Use oral, written and visual texts to research impact of individuals on communities and the nation.

Pages 5-6, 12, 13, 16, 20-21, 22, 29, 31, 34, 38, 46, 49, 50-51, 57-58, 60.

Content Standard 11: Define and investigate important issues and problems using a variety of resources, including technology, to explore and create texts.

1. Generate questions about important issues that affect them; use discussion to narrow questions for research.

Pages 5-6, 12, 13, 16, 20-21, 22, 26, 27, 28, 29, 31, 36, 37, 43, 44, 46, 53, 54, 55, 56, 59, Performance Assessment.

2. Identify best resources for particular questions or topics.

Pages 5-6, 12, 13, 20-21, 28, 29, 31, 42, 46, 49, 50-51, 54, 55, 56, 60, Performance Assessment.

3. Organize and analyze information to draw conclusions.

Pages 5-6, 12, 13, 14-15, 16, 18-19, 20-21, 22, 26, 27, 28, 29, 31, 32-33, 34, 36, 37, 38, 39-41, 42, 43, 44, 46, 49, 50-51, 54, 55, 56, 59, Performance Assessment.

4. Use multiple media to develop and present conclusions related to an issue or problem.

Pages 12, 13, 28, 29, 31, 42, 46, 49, 50-51, 54, 56.

Content Standard 12: Develop and apply personal, shared and academic criteria for the enjoyment, appreciation and evaluation of self and others' oral, written and visual texts.

1. Develop individual standards for effective communication.

Throughout the program we encourage peer editing and feed back. The degree to which this benchmark is addressed related directly to how much emphasis a teacher gives to the process.

MICHIGAN LEARNING STANDARDS FOR ELEMENTARY STUDENTS Correlated with American Careers For Kids (The page numbers listed refer to pages in the Student ACK!tivity Book.)

ENGLISH LANGUAGE ARTS (continued)	MATHEMATICS
 2. Develop and apply both individual and shared standards based on exemplary works. See note for #1. 3. Demonstrate preferences in reading, writing, speaking, listening, viewing and representing based on aesthetic qualities. Pages 5-6, 9, 10-11, 12, 13, 28, 29, 34, 38, 42, 49, 50-51, 55, Performance Assessment. 4. Create a collection of personal work selected to reflect identified criteria. Page 58, Performance Assessment. 5. Develop standards to analyze how style and substance of messages reflect values of a communicator. Pages 5-6, 12, 13, 14-15, 16, 28, 29, 31, 34, 38, 42, 43, 47-48, 49, 55, 56, 57-58, 59, Performance Assessment. 	Content Standard 1: Recognize similarities and generalize patterns; use patterns to create models; describe the nature of patterns; construct representations of mathematical relationships. 1. Recognize, describe and extend numerical and geometric patterns. Pages 9, 10-11, 18-19, 26, 27, 35, 36, 43, 45, 46, 52, 53, 54. 2. Represent and record patterns and relationships in a variety of ways. Pages 1-4, 9, 10-11, 18-19, 26, 27, 35, 36, 43, 45, 46, 52, 53, 54. 3. Use patterns to describe real-world phenomena. Pages 13, 18-19, 20-21, 26, 27, 36, 43, 44, 45, 49, 50-51, 52, 54. 4. Explore various types of numeric and geometric patterns.
	Pages 9, 10-11, 26, 27, 35, 36, 43, 45, 46, 52, 53, 54. 5. Apply experiences with patterns to help solve problems and explore new content. Pages 9, 10-11, 18-19, 26, 27, 35, 36, 43, 45, 46, 52, 53, 54. Content Standard 2: Describe relationships among variables, predict what will happen when one is changed; analyze natural variation and sources of variability; compare patterns of change.

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

MATHEMATICS (continued)

1. Recognize change and variability when it occurs in a variety of settings.

Pages 12, 18-19, 20-21, 26, 27, 28, 29, 31, 36, 44, 46, 49, 50-51, 52, 54.

2. Recognize that change is often predictable, but variable and patterns emerge to help describe change.

Pages 12, 20-21, 26, 29, 31, 36, 44, 46, 49, 50-51, 52, 54.

3. Explore change and realize that changes are frequently interdependent.

Pages 12, 20-21, 26, 29, 31, 36, 44, 46, 49, 50-51, 52, 54.

4. Use tables, charts, open sentences and models to represent change and variability.

Pages 12, 20-21, 26, 29, 31, 36, 44, 46, 49, 50-51, 52, 54.

5. Describe and differentiate between types of relationships.

Pages 12, 18-19, 20-21, 26, 36, 44, 52, 54.

6. Explore variability and change in a variety of contexts.

Pages 12, 20-21, 26, 29, 31, 36, 44, 46, 49, 50-51, 52, 54.

Strand II, Geometry

Content Standard 1: Develop spatial sense.

1. Recognize and name familiar shapes.

Pages 9, 10-11, 12, 13, 39-41, 44, 45.

2. Describe the attributes of familiar shapes.

The description will depend on the conversation that develops during the experiences listed in #1.

3. Compare, sort and classify familiar shapes.

Not directly addressed.

4. Draw and build familiar shapes.

Pages 9, 10-11, 12, 13, 26, 42, 43, 44, 45, 49, 50-51, 55.

5. Explore ways to combine, dissect and transform shapes.

Pages 9, 10-11, 28, 42, 43, 44, 49, 50-51, 55.

6. Recognize parallel and perpendicular line segments.

Pages 9, 10-11, 39-41, 42, 44.

7. Use shape, shape properties and relationships to describe the physical world.

Pages 12, 13, 42, 43, 44, 49, 50-51, 55.

Content Standard 2: Identify locations of objects in relation to other objects and describe effects of transformations.

1. Locate and describe objects in terms of their position.

Pages 9, 10-11, 13, 28, 29, 36, 42, 44.

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

MATHEMATICS (continued)

2. Locate and describe objects in terms of their orientation, direction and relative position.

Pages 9, 10-11, 13, 28, 36, 42, 44.

3. Explore what happens to the size, shape and position of an object after sliding, flipping, turning, enlarging or reducing it.

Pages 10-11.

- 4. No benchmark listed.
- 5. Use concepts of position, direction and orientation to describe the physical world and to solve problems.

Pages 12, 13, 18-19, 28, 42, 43, 44.

- Content Standard 3: Compare attributes of two objects and determine what measurements should be made and to what level of precision.
 - 1. Compare attributes of objects; Select and use standard tools for measurement.

Pages 9, 10-11, 12, 13, 42, 43, 49.

2. Identify the attribute to be measured and select appropriate unit of measurement.

Pages 9, 10-11, 12, 13, 42, 43, 49.

3. Estimate measurements and validate accuracy.

Pages 12, 13, 28, 42, 43, 44.

4. Explain meaning of measurements and recognize relationship with size of unit.

Pages 12, 13, 26, 27, 42, 43, 44, 52, 53.

5. Explore scale drawings, models and maps; relate them to measurements of real objects.

Pages 12, 13, 28, 42, 43, 44, 49.

6. Apply measurement to describe the real world and to solve problems.

Pages 12, 13, 27, 28, 36, 42, 43, 44, 54.

Strand III: Data Analysis

Content Standard 1: Collect and explore data, organize and develop skill in representing and reading data in different formats.

1. Collect and explore data through counting, measuring and conducting surveys and experiments.

Pages 1-4, 26, 27, 43, 44, 54.

2. Organize data using concrete objects, pictures, tallies, tables, charts, diagrams and graphs.

Pages 18-19, 26, 27, 43, 44, 54.

3. Present data using a variety of appropriate representations and explain the meaning of the data.

Pages 26, 27, 43, 44, 54.

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

MATHEMATICS (continued)

4. Identify what data are needed to answer a particular question or solve a given problem; design and implement strategies to obtain, organize and present those data.

Pages 18-19, 26, 27, 43, 44, 54.

Content Standard 2: Examine data and describe characteristics of a distribution.

1. Read and explain data collected and organized.

Pages 1-4, 26, 27, 43, 44, 54.

2. Describe shape of data, using informal language.

A teacher may decide to include this benchmark as a follow-up discussion to the experiences in the data collection and organization process. We do not suggest it directly.

3. Draw, explain and justify conclusions.

See note for #2.

4. Raise and answer questions about source, collection, organization and presentation of data.

See note for #2.

5. Formulate questions and problems, gather data to answer those questions.

See note for #2.

Content Standard 3:

Draw defensible inferences about unknown outcomes, make predictions and identify degree of confi dence in the predictions.

1. Make and test hypotheses.

Pages 12, 20-21, 26, 27, 44, 56.

2. Conduct surveys, samplings and experiments to solve problems.

Pages 1-4, 18-19, 26, 27, 44, 52.

3. Formulate and communicate arguments and conclusions based on data.

Pages 1-4, 18-19, 20-21, 26, 27, 44, 56.

4. Make and explain predictions based on data.

Pages 20-21, 26, 44, 56.

5. Make predictions to answer questions and solve problems.

Pages 20-21, 22, 29, 44, 56.

Strand IV: Number Sense

Content Standard 1:

Experience counting and measuring activities to develop intuitive sense about numbers, develop understanding about properties of numbers, understand the need for and existence of different sets of numbers and investigate properties of special numbers.

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

MATHEMATICS (continued))

1. Develop understanding of whole numbers and read, write and count using whole numbers; investigate basic concepts of fractions and decimals.

Pages 17, 26, 27, 35, 36, 39-41, 43, 46, 52, 53, 54, 60.

2. Investigate and develop an understanding of the base-10 place-value system.

Pages 17, 43, 53.

3. Develop an understanding of the properties of numbers and of the properties of special numbers 0 and 1.

Pages 35, 36, 43.

4. Apply understanding of number systems to model and solve problems.

Pages 17, 20-21, 26, 27, 35, 36, 39-41, 42, 43, 44, 46, 52.

- Content Standard 2: Recognize that numbers are used in different ways: counting, measuring, ordering and estimating; understand and produce multiple representations of a number and translate among equivalent representations.
 - 1. Represent whole numbers, fractions and decimals using concrete, pictorial and symbolic representations.

Pages 17, 26, 27, 35, 36, 43, 52, 53, 54.

2. Explore and recognize different representations for the same number and explain why they are the same.

Students may encounter this concept in the process of setting up and recording observations. We do not include a direct reference to doing so.

3. Investigate ways numbers are used.

Pages 1-4, 12, 13, 17, 18-19, 20-21, 26, 27, 35, 36, 39-41, 42, 43, 44, 46, 52, 53, 54.

4. Develop strategies for estimating quantity and evaluate reasonableness of estimates.

Pages 35, 36, 43, 52, 53.

5. Select appropriate numbers and representations in order to solve problems.

Pages 13, 17, 42, 43, 52, 53.

Content Standard 3: Investigate relationships such as equality, inequality, inverses, factors and multiples and represent and compare large and small numbers.

1. Compare and order numbers using equal, less-than or greater than.

Pages 17, 26, 27, 35, 36, 43, 52, 53, 54.

2. Use part-whole relationships to explore numbers.

Pages 17, 35, 39-41, 43, 52.

3. Classify numbers as even or odd and explore concepts of factors and multiples.

Correlated with American Careers For Kids

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

MATHEMATICS	(continued)

Not directly addressed.

- 4. No Benchmark Listed.
- 5. Apply understanding of number relationships in solving problems.

Pages 13, 17, 26, 27, 43, 52.

Strand V: Numerical and Algebraic Operations

Content Standard 1:

1. Use manipulatives to model operations with numbers.

Pages 43, 52.

2. Develop and apply appropriate method of computation from mental computation, estimation, paper-and-pencil or calculators.

Pages 1-4, 17, 26, 27, 43, 60.

3. Explore properties of operations and give examples of use of those properties.

Students encounter commutative properties in several of the experiences. We do not specifically introduce it.

4. Apply operations efficiently and accurately in solving problems.

Pages 1-4, 17, 26, 27, 43, 60.

Content Standard 2: Analyze problems to determine an appropriate focus for solution;

use algebraic notations to model or represent problems.

1. Write and solve open sentences and write stories to fit the open sentence.

Pages 17, 26, 27, 43, 52.

2. Explore algebraic concepts with manipulatives.

Pages 43, 52.

3. Find replacements for variables in open sentences.

Pages 17, 26, 27, 43, 52.

4. Use analytic thinking to describe situations and solve problems.

Pages 1-4, 17, 18-19, 20-21, 26, 27, 43, 44, 52.

Strand VI: Probability and Discrete Mathematics

Content Standard 1: Develop an understanding of certainty and of probability as a measure of the degree of likelihood.

1. Explain difference between chance and certainty.

Pages 20-21, 31, 32-33, 36, 43, 44, 54, 56

2. Compare events and describe them as more or less likely.

Pages 1-4, 20-21, 31, 44, 54, 56.

3. Conduct experiments with concrete objects to explore concepts and develop intuitive understanding of how

MATHEMATICS (continued)	
conditions affect outcomes.	Pages 9, 10-11
Pages 18-19, 26, 36, 43, 44, 52.	5. Explore, develop and invent algorithms to accomplish a task or solve numerical problems.
4. Conduct experiments, record outcomes, examine out comes to find explanations.	Pages 17, 43.
Pages 18-19, 26, 36, 43, 44, 52.	6. Use discrete mathematics concepts to model situations and solve problems.
Conduct probability experiments and simulations to model and solve problems.	Not directly addressed.
Not directly addressed.	
Content Standard 2: Investigate practical situations such as scheduling, routing, sequencing, networking, organizing and classifying and analyze ideas like recurrence relations, induction, iteration and algorithm design.	
1. Use manipulatives and diagrams to explore problems.	
Pages 18-19, 26, 27, 31, 43, 44, 52, 54.	
2. Explore sets and set relationships by sorting and classifying objects.	
Not directly addressed.	
3. Explore situations by modeling and tracing paths using figures consisting of vertices connected by edges.	
Not directly addressed.	
4. Explore now-next patterns.	

(The page numbers listed refer to pages in the Student ACK!tivity Book.)

SCIENCE

Strand I: Construct New Scientific and Personal Knowledge

Content Standard 1: Ask questions that help learn about the world; design and conduct investigations using appropriate methodology and technology; learn from books and other sources of information;

communicate findings using appropriate technology; reconstruct previously

learned knowledge.

1. Generate reasonable questions about the world based on observation.

Pages 12, 13, 20-21, 22, 31, 36, 42, 43, 44, 49, 50-51, 54, 56.

2. Develop solutions to unfamiliar problems through reasoning, observation and/or experiment.

Pages 12, 13, 18-19, 20-21, 28, 29, 31, 43, 44, 45, 50-51, 52, 56.

3. Manipulate simple mechanical devices and explain how they work.

Not directly addressed.

4. Use simple measurement devices to make metric measurement.

The following pages can be adapted to apply metric measurement: 27, 42, 43, 44, 52.

5. Develop strategies and skills for information gathering and problem solving.

Pages 12, 13, 20-21, 22, 26, 27, 28, 29, 31, 36, 42, 43, 44, 45, 46, 49, 50-51, 52, 54, 56, 59, 60.

Construct charts and graphs and summaries of observations.

Pages 26, 27, 36, 43, 44, 50-51, 54, 56.

Strand II: Reflect on the Nature, Adequacy and Connections Across Scientific Knowledge

1. Develop awareness of need for evidence in making decisions scientifically.

Pages 12, 18-19, 20-21, 25, 26, 28, 29, 31, 36, 43, 44, 50-51, 53, 54, 56.

2. Show how science concepts can be interpreted through creative expression.

Pages 12, 28, 29, 42, 43, 44, 45, 49, 50-51, 55.

3. Describe ways to use technology in everyday life.

We do not ask students to describe ways to use technology, we give them opportunities to use it and also to read about technology.

4. Become aware of and sensitive to the natural world.

Pages 12, 13, 20-21, 43, 49, 50-51, 53, 54, 55, 56.

5. Become aware of contributions made to science by people of diverse backgrounds.

We highlight scientific advances, but not specifically the persons

SCIENCE (continued)			
who contributed them. Strand III: Use Scientific Knowledge from the Life Sciences in		4. Compare and contrast food, energy and environmental needs of selected organisms.	
Real-World		Pages 12, 43, 49, 50-51, 53, 54, 55, 56.	
Content Standard 1.	Apply an understanding of cells to the functioning of multicellular organisms;	5. Describe function	ons of selected seed plant parts.
	explain how cells grow, develop and reproduce.	Pages 49, 50-51,	56.
Describe cells as living systems.		Content Standard 3:	Investigate and explain how characteristics of living things are passed on through generations.
Pages 28 and 29 on cells.	provide opportunities for students to focus	1. Give evidence to young.	hat characteristics are passed from parents
Content Standard 2:	Use classification systems to describe groups of living things; compare and contrast differences in life cycles of living	Pages 30, 50-51.	
	things; investigate and explain how living things obtain and use energy; analyze how parts of living things are adapted to carry out specific functions.	Content Standard 4:	Explain how scientists construct and scientifically test theories concerning the origin of life and evolution of species.
1. Compare and c	lassify familiar organisms on the basis of		We do not address evolution directly.
	sical characteristics.	Content Standard 5:	Explain how parts of an ecosystem are related and how they interact; how
Pages 12, 30, 43,	Pages 12, 30, 43, 49, 50-51, 56.		energy is distributed to living things in an ecosystem; investigate and explain
2. Describe verteb and characteris	rates in terms of observable body parts tics.		how communities of living things change over a period of time; describe how materials cycle through an
Pages 12, 28, 29.			ecosystem and get reused in the environment; analyze how humans and
3. Describe life cy	cles of familiar organisms.		the environment interact.
Pages 12, 49, 50-	51, 53, 54.	1. Identify familia	r organisms as part of a food chain or food

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SCIENCE (continued)		
web and describe	their relationships within the web.	Pages 18-19, 45, 55.
Pages 12, 43, 50-51	., 53.	2. Measure weight, dimensions and temperature of appropriate objects and materials.
2. Explain common interrelationship	patterns of interdependence and s of living things.	Pages 20-21, 27, 28, 36, 42, 43, 54.
Pages 12, 43, 50-51	., 53.	3. Identify properties of materials which make them useful.
3. Describe the basi	c requirements for all living things to cistence.	Not directly addressed.
Pages 29, 31, 43, 49, 50-51, 53, 56.		4. Identify forms of energy associated with common phenomena.
4. Design systems the plants or animals	nat encourage growing of particular	Pages 18-19, 20-21, 26, 44, 52, 54.
Pages 49, 50-51, 53.		Describe the interaction of magnetic materials with other magnetic and non-magnetic materials.
5. Describe positive and negative effects of humans on the environment.		Not directly addressed.
Pages 12, 42, 45, 46, 49, 50-51, 53, 55, 56.		Describe interaction of charged materials with other charged or uncharged materials.
Strand IV: Use Scientifi in Real-Worl	c Knowledge from the Physical Sciences d Contexts	Not directly addressed.
	Measure and describe things around us;	Describe possible electrical hazards to be avoided at home and at school.
	explain what the world around us is made of; identify and describe forms of energy; explain how electricity and	Not directly addressed.
	magnetism interact with matter.	Content Standard 2: Investigate, describe and analyze ways in which matter changes.
 Classify common objects and substances according to observable attributes. 		1. Describe common physical changes in matter.

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SCIENCE (continued)		
Not directly addressed.		2. Recognize and describe different types of earth materials.
Not directly addr	le objects that fulfill a ourpose. ressed. Describe how things around us move and explain why things move as they do.	 Not directly addressed. 3. Explain how rocks and fossils are used to understand the history of the earth. Not directly addressed. 4. Describe natural changes in the earth's surface. Not directly addressed. 5. Describe uses of materials taken from the earth.
Content Standard 4:	Page 44. Describe sounds and sound waves; shadows, color; measure and describe vibrations and waves; explain how waves and vibrations transfer energy.	Pages 13, 42, 45.6. Demonstrate means to recycle manufactured materials and a disposition toward recycling.Not directly addressed.
	· · · · · · · · · · · · · · · · · · ·	Content Standard 2: Demonstrate where water is found on earth; describe characteristics of water and how water moves; analyze interaction of human activities with the hydrosphere. 1. Describe how water exists on earth in three states.
explain how earth's features change over time; analyze effects of technology on earth's surface and resources. 1. Describe major features of the earth's surface. Pages 13, 20-21, 54, 56.		Page 54. 2. Trace the path that rain water follows after it falls. Page 54.

SCIENCE (continued)		SOCIAL STUDIES	
3. Identify sources of drinking water.		Strand I: Historical Po	erspective
Not directly addr	essed.	Content Standard 1:	Students will sequence chronologically specific eras of American history.
4. Describe uses of Pages 20-21, 49, Content Standard 3:		Pages 31, 46. 2. Place major ever and state of Mic	cological time by decades and centuries. The sents in development of local community chigan in chronological order.
1. Describe the atmosphere. Pages 20-21, 49, 50-51, 54, 56.			ce is not focused on the local setting. The raphic organizers can easily be adapted for
2. Describe weather conditions and climates.		3. Place major eve logical order.	ents in early history of the U.S. in chrono
Pages 20-21, 49, 50-51, 54, 56.		Page 46.	
3. Describe seasonal changes in weather. Pages 49, 50-51, 54, 56.		Content Standard 2.	Students will understand narratives about major eras of American and World history.
4. Explain appropriate safety precautions during severe weather.		1. Summarize sequence life from the particle.	uence of key events in stories describing ast.
Not directly addressed.		Page 49.	
Content Standard 4:	Compare and contrast our planet and sun to other planets and star systems.	2. Use narratives a present day life	and graphic data to compare the past wit
	We do not address the solar system and other star systems.	Page 31.	

SOCIAL STUDIES (con	tinued)		
3. Recount lives and character of a variety of individuals from the past.		Content Standard 1:	Describe, compare and explain locations and characteristics of places, cultures and settlements.
Not directly addr			Pages 20-21, 49, 50-51, 56.
	plain how individuals in history ood character and personal virtue.	Content Standard 2:	Describe, compare and explain locations and characteristics of ecosystems,
Page 42 provides an opportunity to choose a building named after a historic individual.			resources, human adaptation, environmental impact and interrelationships among them.
Content Standard 3:	Reconstruct the past by comparing interpretations written by others from a variety of perspectives and create narratives from evidence.		cosystem concepts and processes. 43, 44, 49, 50-51, 53, 54, 55, 56.
1. Use primary sources to reconstruct past events.		2. Describe location	on, use and importance of resources.
Pages 31, 42.		Pages 13, 42, 43,	45, 49, 50-51, 53, 56.
2. Interpret conflicting accounts of events.			physical patterns, ecosystems, resources of the state, region and country.
Not directly addressed. 3. Compose simple narratives of events from the past.		Pages 13, 20-21,	43, 49, 50-51, 53, 56.
Not directly addressed.			arious people and cultures have adapted to ne environment.
Content Standard 4:	Evaluate key decisions made at critical turning points in history.	Pages 13, 20-21,	42, 45, 49, 50-51, 53, 54, 55, 56.
	Our focus is more on present decision-making.	Content Standard 3:	Describe, compare and explain the locations and characteristics of economic activities, trade, political activities, migration, information flow and the
Strand II: Geographic Perspective			interrelationships among them.

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SOCIAL	STUDIES	(continued)

1. Describe major kinds of economic activity and explain factors influencing their location.

Pages 13, 20-21, 22, 42, 45, 59, 60.

2. Describe causes, consequences, routes and movement of major migration to the United States.

Not directly addressed.

3. Explain how transportation and communication link people and communities.

Pages 13, 18-19, 42, 43, 44, 46, 60.

4. Describe some major movements of goods, people, jobs and information.

Pages 13, 20-21, 31, 42, 46, 60.

Content Standard 4: Describe and compare characteristics of ecosystems, states, regions, countries, major world regions and patterns.

1. Draw sketch maps.

Page 13.

2. Describe places, cultures and communities and compare them with other areas.

Pages 20-21, 42, 49, 56.

3. Describe the geography of Michigan at major times in its history and explain reasons for change.

Not directly addressed.

4. Describe the physical, economic and cultural geography of contemporary Michigan and its causes, advantages and disadvantages.

Page 13.

5. Describe the Great Lakes ecosystem.

Not directly addressed.

6. Describe the geography of major U.S. Regions.

Not directly addressed.

Content Standard 5: Describe and explain the causes, consequences and geographic context of major global issues and events.

Not addressed directly.

Strand III: Civic Perspective

Our focus on Civic Perspective relates to interactions within peer groups and families.

Strand IV: Economic Perspective

Content Standard 1: Describe and demonstrate how economic forces of scarcity and choice affect individuals and society.

1. Explain why people must face scarcity when making economic decisions.

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SOCIAL S	STUDIES	(continued)
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Pages 17, 22, 33, 37, 60.

2. Identify opportunity costs in personal decision making.

Pages 17, 20-21, 22, 32-33, 37, 42, 49, 56, 59.

3. Use a decision making model to explain a personal choice.

Pages 32-33, 37, 47-48, 59, Performance Assessment.

4. Analyze costs, benefits and alternatives to using consumer credit.

Not addressed directly.

Content Standard 2: Explain and demonstrate how businesses confront scarcity and choice.

1. Distinguish between natural resources, human capital and capital equipment in producing goods or services.

Pages 16, 16, 22, 42, 43, 44, 49, 50-51, 53, 56, 60.

2. Distinguish among individual ownership, partnership and corporation.

Pages 16, 22.

3. Examine historical and contemporary role of a major industry.

Pages 13, 28, 45, 56, 49, 50-51, 56.

Content Standard 3: Describe how government decisions affect production.

Our focus is directed to the private sector, more than government economics. The brittle star research, related activities on pages 43 and 44, receives funding from government grants, but a teacher will need to develop the connection. We do not.

Content Standard 4: Explain how a free market economic system works.

1. Explain how prices are determined in a market economy.

Pages 16, 17, 22.

2. Describe how producers and consumers function.

Pages 13, 16, 17, 20-21, 22, 45, 46, 49, 50-51, 55, 56, 60.

3. Analyze how Michigan's location has impacted its economic development.

Not directly addressed.

Content Standard 5: Describe how trade generates economic development and interdependence.

Not addressed directly.

Strand V: Inquiry

Content Standard 1: Acquire information from books, maps, newspapers, data sets and other sources.

1. Locate information about communities using a variety of traditional sources, electronic technologies and direct observations.

Pages 12, 13, 20-21, 22, 42, 49, 50-51, 54, 56.

SOCIAL STUDIES (cont	tinued)	
2. Organize social science information to make maps, graphs and tables.		Pages 13, 20-21, 22, 42, 46, 55, 56, 59, 60.
Pages 13, 31, 37.	46, 54, 57-58.	Strand VI: Public Discourse and Decision Making
3. Interpret social science information about local, state and national communities from maps, graphs and charts.		Content Standard 1: State an issue clearly as a question of public policy and analyze
Pages 13, 20-21, 4	46, 54, 56.	different perspectives.
Content Standard 2:	Conduct investigations by formulating a clear statement of a question, gathering	We do not focus on public policy, specifically.
	and organizing information from a variety of sources, analyzing and	Content Standard 2: Engage peers in constructive conversation about matters of public
	interpreting information, formulating and testing hypotheses, reporting results	concern.
in a variety of formats. 1. Pose a social science question about Michigan or the U.S.		1. Engage each other in conversation which attempt to clarify and resolve issues
Pages 13, 20-21, 22, 42, 46, 55, 56, 60.		pertaining to policy.
2. Gather and analyze information using appropriate informa-		Pages 32-33, 37, 39-41, 60.
answer the question posed.		Content Standard 3: Compose coherent written essays that express a position on a
Pages 13, 20-21, 22, 42, 46, 55, 56, 59, 60.		public issue.
3. Construct an answer to the question posed and support answer with evidence.		1. Compose a short essay expressing a decision on a policy issue.
Pages 13, 20-21, 22, 42, 46, 55, 56, 59, 60.		Not directly addressed.
4. Report results of in lowed.	vestigation including the procedures fol-	Strand VII: Citizen Involvement

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MCREL CONTENT KNOWLEDGE STANDARDS

LANGUAGE ARTS

MICHIGAN LEARNING STANDARDS FOR ELEMENTARY STUDENTS Correlated with American Careers For Kids (The page numbers listed refer to pages in the Student ACK!tivity Book.)

MICHIGAN LEARNING STANDARDS FOR ELEMENTARY STUDENTS Correlated with American Careers For Kids (The page numbers listed refer to pages in the Student ACK!tivity Book.)