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Superintendent of Education

# **Cullman Middle School**

## **Seventh Grade**

# **Student Learning Objectives**

**Reading/Language Arts**  
**Math**  
**Science**  
**Social Science**

# SEVENTH GRADE

The Cullman City School System continually strives to promote a high quality education for all of our students. The school system encourages each teacher to incorporate a wide variety of teaching strategies in an effort to ensure the academic success of each student. The Cullman City School System values high academic standards and promotes excellence through a challenging curriculum. Cullman Middle School has received certification as an Alabama Math, Science, and Technology Initiative site. Teachers receive on-going training in a continuous effort to improve reading instruction for all students. This booklet identifies the minimum student learning objectives by subject as identified by the Alabama Course of Study. Each year students in seventh grade are assessed through the administration of the Alabama Direct Assessment of Writing, the Alabama Reading and Math Test (ARMT), and the Stanford Achievement Test, 10<sup>th</sup> Edition (Stanford 10). In addition, classroom teachers continually monitor student progress to determine gains in student achievement in all academic areas. Teachers in the Cullman City School system design instruction based on the standards outlined in the Alabama Course of Study (ACOS), the Alabama High School Graduation Exam (AHSGE), the Stanford 10, and the ARMT. The following information is provided in an effort to assist you in monitoring the educational progress of your child. Please feel free to contact your child's teacher if you have further questions concerning these standards. Also, you may view additional curriculum information on the web at [www.cullmancats.net](http://www.cullmancats.net) or [www.alsde.edu](http://www.alsde.edu).

## Minimum Required Content

### READING/LANGUAGE ARTS

Students will:

1. Construct, interpret, and evaluate meaning by applying appropriate strategies to materials across the curriculum.
2. Read with ease textual, functional, and recreational materials encountered in daily life.
3. Exhibit the habit of reading for a substantial amount of time daily, including assigned and self-selected materials at their independent and instructional levels.
4. Demonstrate reading improvement gained through substantial amounts of daily reading.
5. Recognize various forms of literature according to characteristics.
6. Determine the author's purpose by identifying the mode of writing.
7. Appreciate the characteristics, literary elements, and cultural influences of literary works representative of various eras.
8. Identify writing and speaking styles that incorporate dialects, idioms, and intonation patterns.
9. Demonstrate respect for linguistic and cultural diversity in literature.
10. Identify components of the etymology of language.
11. Refine general listening behaviors.
12. Select and indicate preference for sources of information.
13. Use study processes to manage information.
14. Conduct project research, individually and collaboratively, utilizing all aspects of the research process.
15. Respond with understanding and empathy to information read, viewed, and heard.
16. Develop and use an extended vocabulary through reading, listening, viewing, writing, speaking, and presenting.
17. Use available computer technology to enhance reading and writing skills.

18. Present literature and personal composition effectively.
19. Identify ways the power of language evokes emotion; expands thinking; and influences problem solving, decision making, and action.
20. Demonstrate effective listening and speaking behaviors for varied situations and purposes.
21. Exhibit proficiency in the use of the writing process.
22. Know and apply principles of grammar and usage in writing, speaking, and presenting and apply mechanics in writing.
23. Compose using recognized literature as models.
24. Use self-monitoring and feedback from peers and teachers to evaluate reading, writing, listening, viewing, studying, and research skills.
25. Organize content of written composition with attention to basic characteristics.
26. Compose descriptive, narrative, expository, and persuasive essays.
27. Compose and present in many ways using different techniques for various audiences and occasions both formal and informal.
28. Express personal feelings, opinions, and information in formal and informal situations.

### **Minimum Required Content**

#### **MATH**

Students will:

##### **Number and Operations**

1. Demonstrate computational fluency with addition, subtraction, and multiplication of integers.
2. Use order of operations to evaluate numerical expressions.
3. Solve problems requiring the use of operations on rational numbers.

##### **Algebra**

4. Express a pattern shown in a table, graph, or chart as an algebraic equation.
5. Translate verbal phrases into algebraic expressions and algebraic expressions into verbal phrases.
6. Solve one- and two-step equations.

##### **Geometry**

7. Determine the transformation(s), including translations, reflections, or rotations, used to alter the position of a polygon on the coordinate plane.
8. Recognize geometric relationships among two-dimensional and three-dimensional objects.

##### **Measurement**

9. Solve problems involving circumference and area of circles.
10. Find the perimeter of polygons and the area of triangles and trapezoids.
11. Solve problems involving ratios or rates, using proportional reasoning.

##### **Data Analysis and Probability**

12. Determine measures of central tendency (mean, median, and mode) and the range using a given set of data or graphs, including histograms, frequency tables, and stem-and-leaf plots.
13. Determine the probability of a compound event.

### **Minimum Required Content**

#### **SCIENCE**

Students will:

##### **Life Science**

1. Describe characteristics common to living things, including growth and development, reproduction, cellular organization, use of energy, exchange of gases, and response to the environment.
2. Identify functions of organelles found in eukaryotic cells, including the nucleus, cell membrane, cell wall, mitochondria, chloroplasts, and vacuoles.
3. Relate major tissues and organs of the skeletal, circulatory, reproductive, muscular, respiratory, nervous, and digestive systems to their functions.
4. Describe organisms in the six-kingdom classification system by their characteristics.
5. Identify major differences between plants and animals, including internal structures, external structures, methods of locomotion, methods of reproduction, and stages of development.
6. Describe evidence of species variation due to climate, changing landforms, interspecies interaction, and genetic mutation.
7. Describe biotic and abiotic factors in the environment.
8. Describe the function of chromosomes.
9. Identify the process of chromosome reduction in the production of sperm and egg cells during meiosis.
10. Identify differences between deoxyribonucleic acid (DNA) and ribonucleic acid (RNA).
11. Identify Mendel's laws of genetics.

### **Minimum Required Content**

#### **SOCIAL SCIENCE**

Students will:

#### **Geography**

1. Describe the world in spatial terms using maps, major physical and human features, and urban and rural land-use patterns.
2. Analyze regional characteristics for factors that contribute to change and for their relative importance.
3. Describe processes that shape the physical environment, including long-range effects of extreme weather phenomena and human activity.
4. Locate cultural hearths in Europe, Asia, and Africa on maps, globes, and satellite images.
5. Identify physical, economic, political, and cultural characteristics of selected regions in the Eastern Hemisphere, including Europe, Asia, and Africa.
6. Explain factors that contribute to conflict within and between countries of the Eastern Hemisphere.
7. Describe historical and contemporary economic trade networks of regions in the Eastern Hemisphere based upon their geographic location and available resources.
8. Describe positive and negative environmental effects of human actions on the four basic components of Earth's physical systems: atmosphere, biosphere, lithosphere, and hydrosphere.
9. Analyze environmental consequences of major technological changes in human history for both intended and unintended outcomes.
10. Describe ways people in the Eastern Hemisphere prepare for natural hazards and disasters.
11. Compare the distribution of natural resources in various parts of the world by mapping locations of major deposits.
12. Describe problems involved in balancing the impact of human habitation on the environment and the need for natural resources essential for sustaining human life.