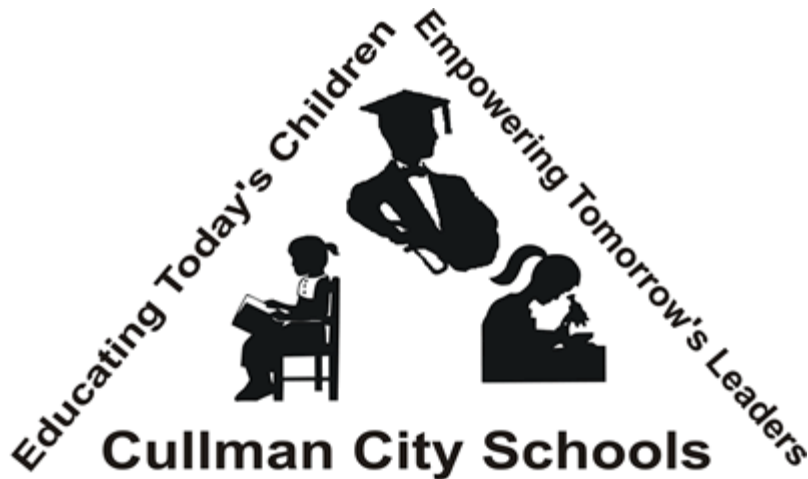


# FOURTH GRADE



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## Student Learning Objectives 2005 – 2006

Reading/Language Arts  
Math  
Science  
Social Studies

## FOURTH 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. Both East and West Elementary Schools have been certified as Alabama Reading Initiative sites. Elementary 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 and grade level as identified by the Alabama Course of Study and addendums. Each year students in grades K-3 are assessed using the Dynamic Indicator of Basic Early Literacy Skills (DIBELS). Elementary students in grades 3-6 are assessed each spring through the administration of the Stanford Achievement Test, 10<sup>th</sup> Edition (SAT 10) and the Alabama Reading and Math Test (ARMT). All fifth grade students in the state of Alabama take the Fifth Grade Direct Assessment of Writing (ADAW). In addition, classroom teachers continually monitor student progress to determine gains in student achievement in all academic areas. Each teacher in the Cullman City School System designs instruction based on the standards outlined in the Alabama Course of Study, the ARMT, and the SAT 10. The following information is provided in an effort to assist you in monitoring the educational progress of your child. 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**

(\*Denotes additional material that is assessed on the SAT 10)

Students will:

1. Use a wide range of strategies to interpret, evaluate, appreciate, and construct meaning from print materials.
2. Demonstrate comprehension of recreational, textual, informational, and functional literatures.
3. Apply knowledge of text features to gain meaning.
4. Exhibit the habit of reading for a substantial amount of time daily, including assigned and self-selected materials at their independent and instructional levels.
5. Demonstrate literal/initial understanding of print material: utilizing supporting details, sequencing skills, causes and results.
6. Interpret passages in print material.
7. Demonstrate reading improvement gained through substantial amounts of daily reading.
8. Identify literary elements and devices including characters, important details, and similes.
9. Read grade-level texts aloud and silently with fluency and comprehension.
10. Choose to read and view a variety of literature representing many cultures, eras, genres, and ideas.
11. Monitor own reading: self-questioning, re-reading, adjusting speed, and apply prior knowledge.
12. Read materials encountered in daily lives.
13. Apply strategies of a skillful listener.
14. Exhibit increased independence in selecting appropriate print and non-print media for a variety of purposes.
15. Distinguish between fact and opinion in information from a variety of sources.
16. Describe cultural similarities and differences through exposure to multicultural literature.
17. Compare and contrast story elements and the experiences and feelings of literary characters to students' lives.
18. Employ study strategies with increasing facility to gain information.
19. Demonstrate vocabulary growth developed through reading and listening to literature.

20. Demonstrate understanding of reading vocabulary along with the use of synonyms and multiple meaning words.
21. Utilize text characteristics to further deepen comprehension.
22. Use the writing process with assistance when composing different forms of written expression.
23. Organize and present information using a variety of media and student-produced text.
24. Know and apply principles of grammar and usage in writing, speaking, and presenting and apply mechanics in writing.
25. Demonstrate an ability to utilize appropriate capitalization, usage, and punctuation skills.
26. Exhibit the habit of writing daily in academic, social, and/or personal situations.
27. Write in a variety of modes to express meaning.
28. Organize content of written compositions with attention to basic characteristics.
29. Correct errors in sentence structure in oral and written presentations.
30. Write meaningful sentences and paragraphs utilizing appropriate structure.
31. Apply figurative language found in literature to enhance written and oral presentations.
32. Spell words correctly in final written products.
33. Exhibit an increased proficiency with cursive writing.
34. Use computers for expression.
35. Exhibit skill in dramatization and other oral presentations.
36. Demonstrate facility with oral language for a wide range of purposes.

### Math

Students will:

#### **Number and Operations**

1. Demonstrate number sense by comparing and ordering decimals to hundredths and whole numbers to 999,999.
2. Write money amounts in words and dollar-and-cent notation.
3. Rename improper fractions as mixed numbers and mixed numbers as improper fractions.
4. Demonstrate addition and subtraction of fractions with common denominators.
5. Round whole numbers and decimals numbers.
6. Solve problems that involve addition and subtraction of four-digit numbers.
7. Solve problems, including word problems, multiplication and division on whole numbers.
8. Recognize equivalent forms of commonly used fractions and decimals.

#### **Mathematics Procedures**

9. Use estimation and rounding skills.\*
8. Demonstrate understanding of fraction and decimal concepts.\*
9. Demonstrate proficiency of number facts.\*
10. Demonstrate proficiency of whole number and decimal computation.\*
11. Add, subtract, multiply, and divide whole numbers.\*
12. Add and subtract decimals and fractions.\*
13. Complete geometric and numeric patterns.\*

#### **Algebra**

14. Write number sentences for word problems that involve multiplication or division.
15. Complete addition and subtraction number sentences with a missing addend or subtrahend.

#### **Geometry**

16. Identify triangles, quadrilaterals, pentagons, hexagons, or octagons based on the number of sides, angles, and vertices.
17. Find locations on a map or grid using ordered pairs.

#### **Measurement**

18. Calculate elapsed time in hours and minutes.
19. Measure length, width, weight, and capacity, using metric and customary units, and temperature in degrees Fahrenheit and degrees Celsius.

### **Data Analysis and Probability**

20. Represent categorical data using tables and graphs.
21. Determine if outcomes of simple events are likely, unlikely, certain, equally likely, or impossible.
22. Represent numerical data using tables and graphs, including bar graphs and line graphs.

### **Science**

Students will:

#### **Physical Science**

1. Describe how electrical circuits can be used to produce light, heat, sound, and magnetic fields.
2. Compare different pitches of sound.
3. Recognize how light interacts with transparent, translucent, and opaque materials
4. Describe effects of friction on moving objects.

#### **Life Science**

5. Describe the interdependence of plants and animals.
6. Classify animals as vertebrates or invertebrates and as endotherms or ectotherms.

#### **Earth and Space Science**

7. Describe geological features of Earth.
8. Identify technological advances and other benefits of space exploration
9. Describe the appearance and movement of Earth and its moon.
10. Describe components of our solar system.
11. Apply science process skills\*

### **Alabama Studies**

Students will:

1. Identify economic, political, and geographic data about Alabama on thematic maps.
2. Describe cultures, governments, and economies of Native Americans in Alabama.
3. List reasons for and the impact of European exploration and settlement in Alabama.
4. Describe the relationship of the five geographic regions of Alabama to the movement of Alabama settlers during the early nineteenth century.
5. Describe Alabama's entry into statehood.
6. Identify cultural, economic, and political aspects of the lifestyles of early nineteenth-century farmers, plantation owners, slaves, and townspeople.
7. Identify reasons for Alabama's secession from the Union.
8. Explain Alabama's role in and economic support of the Civil War.
9. Describe political, social, and economic conditions in Alabama during Reconstruction.
10. Describe significant social and educational changes in Alabama during the late nineteenth and early twentieth centuries.
11. Describe the impact of World War I on Alabamians.
12. Explain effects of the events of the 1920s and the Great Depression on different socioeconomic groups.
13. Describe the economic and social impact of World War II on Alabamians.
14. Describe the social, political, and economic impact of the modern Civil Rights Movement on Alabama.
15. Identify major world events that have impacted Alabama since 1950.
16. Describe the impact of population growth on Alabama during the twentieth century.
17. Demonstrate understanding of historical, geographical, governmental, economic and cultural concepts.\*