

## Grade 7

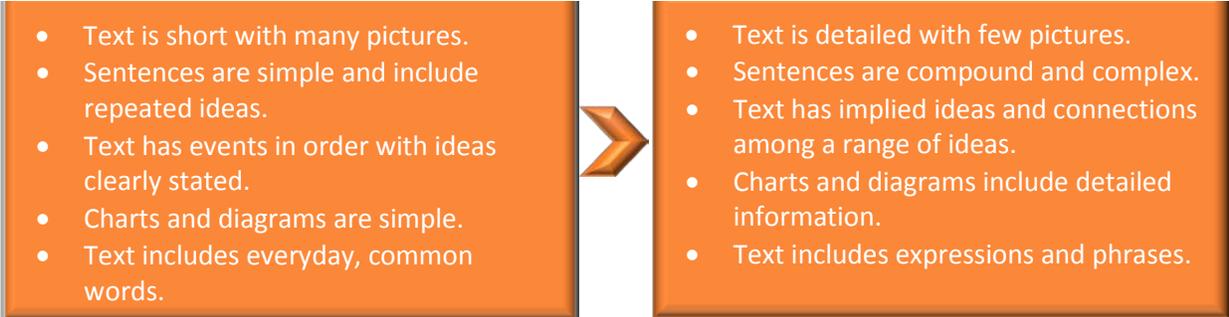
### English Language Arts – Grade 7

In middle school, instruction has an increased focus on informational texts, but still includes enjoying reading or listening to and learning more about literary (non-fiction) texts read aloud. Students should:

- read/listen to stories, poetry (e.g., *The Road Not Taken*), plays and informational texts (e.g., biographies, historical documents, science texts, etc.) that may be adapted;
- produce different types of writing: stories, informational, and persuasive; and
- learn communication skills (e.g., classroom discussions and presentations).

The complexity of the stories and informational texts your students will read or listen to will increase throughout the year and as they move to the next grade. Following are examples of how the stories and text become more complex.

### Range of Text Complexity

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- Text is short with many pictures.
  - Sentences are simple and include repeated ideas.
  - Text has events in order with ideas clearly stated.
  - Charts and diagrams are simple.
  - Text includes everyday, common words.

- Text is detailed with few pictures.
- Sentences are compound and complex.
- Text has implied ideas and connections among a range of ideas.
- Charts and diagrams include detailed information.
- Text includes expressions and phrases.

Instructional activities should be individualized for students as needed.

## ELA Sample Instructional Activities (text complexity increases in each grade)

### 7<sup>th</sup> Grade

- Learning the meaning of new words, and how they affect 7<sup>th</sup> grade level stories or informational texts
- Determining the big idea or central meaning of stories and informational text
- Understanding how characters, individuals, settings, ideas, and events affect each other (e.g., character's choices might be different in the city than the country)
- Comparing texts in two different books or mediums (e.g., book and a video) to see how the information is presented
- Finding evidence in an informational text to support the claim the author is trying to convince the reader
- Sharing ideas and information by producing persuasive pieces that include claims, relevant ideas and evidence, informational pieces using a conclusion that summarizes the information, and stories with sequenced events and details to show experiences
- Communicating with classmates in discussions; changing own views when appropriate
- Reporting on a topic using multimedia (e.g., slide show) and using relevant information to support main ideas

### 8<sup>th</sup> Grade Preview

- Learning the meaning of new academic and content words (e.g., galaxy), and how they affect 8<sup>th</sup> grade level stories or informational texts
- Understanding how the big idea or central idea of stories and informational texts are developed by finding evidence throughout
- Comparing two or more texts to see how the characters' points of view are similar or different and how they affect the story
- Analyzing two or more informational texts that provide conflicting information on the same topic
- Determining the author's claim and evaluating the evidence used to support the claim
- Determining how a text is structured (e.g., cause/effect, chronological order)
- Sharing ideas and information by producing persuasive pieces that include clear reasons, ideas, and evidence; informational pieces using content specific vocabulary; and stories that use language such as imagery (e.g., juicy and sweet) that build understanding and appreciation
- Communicating claims and information to classmates

## Mathematics – Grade 7

In grade 7, the focus in mathematics is on creating and solving equations about real-world problems, solving problems using positive and negative numbers, studying area, surface area, and volume of shapes, making scale drawings, and comparing data from different types of graphs, and determining probability based upon data.

### Mathematics Sample Instructional Activities

#### 7<sup>th</sup> Grade

- Multiplying and dividing positive and negative numbers
- Creating and solving equations about real-world problems
- Using ratios and proportions on grids or line graphs to show proportional relationships
- Solving percent problems and word problems that have a combination of whole numbers, fractions, and decimals
- Using formulas to solve area, surface area, and volume problems; solving problems about the area and circumference of circles
- Connecting proportionality to geometry to show effect of scale change on distance, area, and volume
- Solving equations and expressions that are not equal about real-world problems
- Collecting and analyzing data; identifying range, median, mean and mode; comparing data
- Determining probability based on data

#### 8<sup>th</sup> Grade Preview

- Working with rational and irrational numbers
- Adding, subtracting, multiplying, and dividing fractions, decimals, or positive/negative numbers
- Recognizing and comparing congruent and similar figures; describing scale change on surface area, area, and volume
- Changing a 2-dimensional shape using turns, flips, or slides
- Learning about how angles are related to each other (e.g., supplementary, complementary, and adjacent)
- Solving problems involving angle measure, area, surface area, and volume including cylinders, cubes, and spheres
- Solving linear equations; graphing linear functions
- Interpreting information from graphs and plots
- Conducting and analyzing probability experiments