Team Event: Logic Test

Students should study how to solve a wide variety of logic problems including verbal logic, quantitative reasoning, and nonverbal logic. Students can study any Penny Press or Dell Logic Book (these are available in the magazine rack) through Amazon or Barnes and Noble Bookstores.

The following website links provide excellent sample problems:

http://www.brainbashers.com
http://www.mensa.org/workout.php
http://www.mensaforkids.org/play_template.cfm
www.puzzlersparadise.com
http://www.sudoku.org.uk/index.asp
http://www.mathsisfun.com/puzzles/number-puzzles-index.html
http://www.allstarpuzzles.com/home.html
http://www.braingle.com/

The Logic Test may contain any of the following types of problems:
- Sudoku
- Cryptograms
- Algebraic equations
- Spatial reasoning
- Anagrams
- Patterns/graphs
- Probability
- Lateral thinking
- Grids
Team Event: Super Quiz

History/Social Studies:
The social studies topic for the 2014 Super Quiz will focus on political thought found in the book's introduction and the chapter titled Ancient Political Thought 800BCE.

The Politics Book
DK Publishing

- Hardcover: 352 pages
- Publisher: DK Publishing (February 18, 2013)
- Language: English
- ISBN-10: 1465402144
  Also available in a Kindle version

Religion:
In honor of the beatification of Blessed Pope John Paul II, the religion topic for the 2014 Super Quiz will focus on a biography of Pope John Paul II titled, Blessed John Paul II: Be Not Afraid (Encounter the Saint) by Susan Helen Wallace and Charles Craig.

Blessed John Paul II: Be Not Afraid (Encounter the Saint) by Susan Helen Wallace and Charles Craig

- Age Range: 8 and up
- Paperback: 111 pages
- Publisher: Pauline Books & Media (April 1, 2011)
- Language: English
- ISBN-10: 0819811785
  Also available in a Kindle version
Literature:
The literature topic for the 2014 Super Quiz will focus on the novel titled *Wonder*, by R.J. Palacio.

Amazon Review:
August Pullman was born with a facial deformity that, up until now, has prevented him from going to a mainstream school. Starting 5th grade at Beecher Prep, he wants nothing more than to be treated as an ordinary kid—but his new classmates can’t get past Auggie’s extraordinary face. *Wonder*, now a #1 *New York Times* bestseller and included on the Texas Bluebonnet Award master list, begins from Auggie’s point of view, but soon switches to include his classmates, his sister, her boyfriend, and others. These perspectives converge in a portrait of one community’s struggle with empathy, compassion, and acceptance.

"Wonder is the best kids' book of the year," said Emily Bazelon, senior editor at Slate.com and author of *Sticks and Stones: Defeating the Culture of Bullying and Rediscovering the Power of Character and Empathy*. In a world where bullying among young people is an epidemic, this is a refreshing new narrative full of heart and hope. R.J. Palacio has called her debut novel “a meditation on kindness” —indeed, every reader will come away with a greater appreciation for the simple courage of friendship. Auggie is a hero to root for, a diamond in the rough who proves that you can't blend in when you were born to stand out.

*Wonder*, by R.J. Palacio

- **Age Range:** 8 and up
- **Hardcover:** 320 pages
- **Publisher:** Knopf Books for Young Readers; 1 edition (February 14, 2012)
- **Language:** English
- **ISBN-10:** 9780375869020
- **ISBN-13:** 978-0375869020
- **ASIN:** 0375869026

This book is also available in a Kindle version.
Science:
The science topic for the 2014 Super Quiz will focus on the material found within the book noted below as found in pages 64 – 122 (Renaissance and Enlightenment 1500 – 1700).

Science: The Definitive Visual Guide, by Robert Dinwiddie, Giles Sparrow, Marcus Weeks, Carole Stott, Jack Challoner, David Hughes, David Burnie, and Adam Hart-Davis

- **Age Range:** 10 and up
- **Paperback:** 512 pages
- **Publisher:** DK Publishing; Reprint edition (September 19, 2011)
- **Language:** English
- **ISBN-10:** 0756689015
- **ISBN-13:** 978-0756689018

Fine Art:
The Fine Art topic for the 2014 Super Quiz will be famous artists. The resource that schools should use to prepare is titled 13 Artists Children Should Know, by Angela Wenzel.

Amazon Review:
This heavily illustrated book featuring the world’s greatest painters is an excellent introduction for young readers to artists and their works. Whether it's Leonardo da Vinci’s mysterious Mona Lisa, Vermeer's vibrant depictions of light, Van Gogh’s mesmerizing brush strokes, or Matisse’s playful cutouts, the art featured here is introduced in a format and style that will appeal to children. The book proceeds chronologically, accompanied by a timeline to offer helpful historical context. Each artist's entry includes a concise biography, beautiful reproductions of major works, and lively texts that speak directly to young readers. Games, quizzes and other activities help readers learn about the significant contributions of each artist in a way that is both fun and inspiring. Additional information about museums, suggestions for further reading, and online resources will satisfy the most curious minds.

13 Artists Children Should Know, by Angela Wenzel

- **Age Range:** 8 and up
- **Hardcover:** 48 pages
- **Publisher:** Prestel (April 12, 2009)
- **Language:** English
- **ISBN-10:** 3791341731
- **ISBN-13:** 978-3791341736
Individual Event: Current Events
The individual Current Events topics for 2014 will focus on items covered in the Scholastic News: Current Events, Grades 6-8 Weekly magazine.

The individual Current Events topics for 2014 will focus on items covered in the Junior Scholastic: Current Events magazine.

Excerpt from the Weekly Reader Magazine Website:
Catch fast-breaking stories with our weekly newsmagazine for grades 6-8. Clearly written cover stories explore major national and international news events and the history behind them. Plus, Junior Scholastic(r) / Current Events(r)'s team of student reporters writes debates on controversial topics that spark lively classroom discussions. Infographics, vibrant photos, and in-depth news coverage help make the news accessible and student-friendly. NEW! FREE interactive Digital Edition of every issue and interactive classroom resources

Students should read the issues that are printed from October 1, 2013 through January 31, 2014 for the Diocesan level competition. Coaches may elect to utilize the online teacher support materials to prepare the individual team member for this event.

Call toll-free 1-800-446-3355 to order your student subscription or use the link below to order online.

Link: http://www.weeklyreader.com/pubstore/pc-11-3-current-eventsreg.aspx
Individual Event: English

The individual English topic for 2014 will focus on Common Core English Language Arts
Literacy Standards for 8th Grade (CCSS.ELA-Literacy.L.8.1 – L.8.6).

Conventions of Standard English

- CCSS.ELA-Literacy.L.8.1 Demonstrate command of the conventions of standard English
  grammar and usage when writing or speaking.
  - CCSS.ELA-Literacy.L.8.1a Explain the function of verbals (gerunds, participles, infinitives)
    in general and their function in particular sentences.
  - CCSS.ELA-Literacy.L.8.1b Form and use verbs in the active and passive voice.
  - CCSS.ELA-Literacy.L.8.1c Form and use verbs in the indicative, imperative, interrogative,
    conditional, and subjunctive mood.
  - CCSS.ELA-Literacy.L.8.1d Recognize and correct inappropriate shifts in verb voice and
    mood.*

- CCSS.ELA-Literacy.L.8.2 Demonstrate command of the conventions of standard English
  capitalization, punctuation, and spelling when writing.
  - CCSS.ELA-Literacy.L.8.2a Use punctuation (comma, ellipsis, dash) to indicate a pause or
    break.
  - CCSS.ELA-Literacy.L.8.2b Use an ellipsis to indicate an omission.
  - CCSS.ELA-Literacy.L.8.2c Spell correctly.

Knowledge of Language

- CCSS.ELA-Literacy.L.8.3 Use knowledge of language and its conventions when writing,
  speaking, reading, or listening.
  - CCSS.ELA-Literacy.L.8.3a Use verbs in the active and passive voice and in the conditional
    and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the
    action; expressing uncertainty or describing a state contrary to fact).

Vocabulary Acquisition and Use

- CCSS.ELA-Literacy.L.8.4 Determine or clarify the meaning of unknown and multiple-
  meaning words or phrases based on grade 8 reading and content, choosing flexibly from a
  range of strategies.
  - CCSS.ELA-Literacy.L.8.4a Use context (e.g., the overall meaning of a sentence or paragraph;
    a word’s position or function in a sentence) as a clue to the meaning of a word or phrase.
CCSS.ELA-Literacy.L.8.4b Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., precede, recede, secede).

CCSS.ELA-Literacy.L.8.4c Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.

CCSS.ELA-Literacy.L.8.4d Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).

CCSS.ELA-Literacy.L.8.5 Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.

CCSS.ELA-Literacy.L.8.5a Interpret figures of speech (e.g. verbal irony, puns) in context.

CCSS.ELA-Literacy.L.8.5b Use the relationship between particular words to better understand each of the words.

CCSS.ELA-Literacy.L.8.5c Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., bullheaded, willful, firm, persistent, resolute).

CCSS.ELA-Literacy.L.8.6 Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.
Individual Event: Fine Art
The individual fine arts topics for 2014 will focus on the sculptures and artists featured in the book titled *13 Sculptures Children Should Know*, by Angela Wenzel.

**13 Sculptures Children Should Know**, by Angela Wenzel

- **Age Range**: 8 and up
- **Hardcover**: 48 pages
- **Publisher**: Prestel (May 24, 2010)
- **Language**: English
- **ISBN-10**: 3791370103
- **ISBN-13**: 978-3791370101

Amazon Review:
A winged, headless goddess from the third century; a gigantic tube of toothpaste; a tribal mask; a monumental bronze statue of Buddha--these creations and more are featured in this book of sculptures that are fun to explore and important in the history of art. Sculpture is inherently interesting to children, who naturally respond to shape, size, texture and color. This book takes a close look at thirteen of the world’s most fascinating sculptures, including works by Michelangelo, Rodin, and Niki de Saint Phalle, and other works from around the world. Shaped from wood, stone, metal and plastic, these works tell us much about the culture in which they were created. Each page is filled with colorful photographs and accessible information about the work, the artist who created it, and the world in which it was made. Various games and puzzles enhance this introduction to three-dimensional masterpieces, which is certain to whet its young readers’ appetites for more.
Individual Event: Literature

The 2014 individual literature test will focus on the novel, The Wednesday Wars, by Gary D. Schmidt.

Amazon Review:
In this Newbery Honor-winning novel, Gary D. Schmidt offers an unforgettable antihero. THE WEDNESDAY WARS is a wonderfully witty and compelling story about a teenage boy's mishaps and adventures over the course of the 1967–68 school year.

Meet Holling Hoodhood, a seventh-grader at Camillo Junior High, who must spend Wednesday afternoons with his teacher, Mrs. Baker, while the rest of the class has religious instruction. Mrs. Baker doesn’t like Holling—he’s sure of it. Why else would she make him read the plays of William Shakespeare outside class? But everyone has bigger things to worry about, like Vietnam. His father wants Holling and his sister to be on their best behavior: the success of his business depends on it. But how can Holling stay out of trouble when he has so much to contend with? A bully demanding cream puffs; angry rats; and a baseball hero signing autographs the very same night Holling has to appear in a play in yellow tights! As fate sneaks up on him again and again, Holling finds Motivation—the Big M—in the most unexpected places and musters up the courage to embrace his destiny, in spite of himself.

The Wednesday Wars, by Gary D. Schmidt

- **Age Range:** 10 and up
- **Paperback:** 272 pages
- **Publisher:** HMH Books for Young Readers; Reprint edition (May 18, 2009)
- **Language:** English
- **ISBN-10:** 054723760X
- **ISBN-13:** 978-0547237602

This book is also available in Kindle version.
Individual Event: Mathematics
The individual Mathematics topic for 2014 will focus on the Common Core Standards for Mathematics (CCSS.Math.Content.8.EE.A.1-8.EE.C.8c). Individuals may use any resource including textbooks, websites, and other media that focus on and study this content.

Expressions and Equations Work with radicals and integer exponents.

- **CCSS.Math.Content.8.EE.A.1** Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, \(3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27\).

- **CCSS.Math.Content.8.EE.A.2** Use square root and cube root symbols to represent solutions to equations of the form \(x^2 = p\) and \(x^3 = p\), where \(p\) is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that \(\sqrt{2}\) is irrational.

- **CCSS.Math.Content.8.EE.A.3** Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3 times \(10^8\) and the population of the world as 7 times \(10^9\), and determine that the world population is more than 20 times larger.

- **CCSS.Math.Content.8.EE.A.4** Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.

Understand the connections between proportional relationships, lines, and linear equations.

- **CCSS.Math.Content.8.EE.B.5** Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.

- **CCSS.Math.Content.8.EE.B.6** Use similar triangles to explain why the slope \(m\) is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation \(y = mx\) for a line through the origin and the equation \(y = mx + b\) for a line intercepting the vertical axis at \(b\).
Analyze and solve linear equations and pairs of simultaneous linear equations.

- **CCSS.Math.Content.8.EE.C.7** Solve linear equations in one variable.
  - **CCSS.Math.Content.8.EE.C.7a** Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where $a$ and $b$ are different numbers).
  - **CCSS.Math.Content.8.EE.C.7b** Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

- **CCSS.Math.Content.8.EE.C.8** Analyze and solve pairs of simultaneous linear equations.
  - **CCSS.Math.Content.8.EE.C.8a** Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.
  - **CCSS.Math.Content.8.EE.C.8b** Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.
  - **CCSS.Math.Content.8.EE.C.8c** Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.
Individual Event: Religion
The individual Religion topic for 2014 will focus on the fourth section of the book, “How We Should Pray”.

YOUCAT is short for Youth Catechism of the Catholic Church, which will be launched on World Youth Day. Developed with the help of young Catholics and written for high-school age people and young adults, YOUCAT is an accessible, contemporary expression of the Catholic Faith. The appealing graphic format includes Questions-and-Answers, highly-readable commentary, summary definitions of key terms, Bible citations and inspiring and thought-provoking quotes from Saints and others in the margins. What’s more, YOUCAT is keyed to the Catechism of the Catholic Church, so people can go deeper.

Youcat, by Cardinal Christoph Schonborn

- Paperback: 300 pages
- Publisher: Ignatius Press (April 1, 2011)
- Language: English
- ISBN-10: 1586175165
  Also available in a Kindle version

OPTIONAL RESOURCE:

Youcat Study Guide, by Mark Brumley, Jack Kersting, and Paul George

- Paperback: 120 pages
- Publisher: Ignatius Press; Stg edition (July 22, 2013)
- Language: English
Individual Event: Science
The science topic for the 2014 individual science test will focus on the material found within the book noted below as found in pages 124 - 229 (Industrial Revolution from the Introduction and Timeline through Safer Surgery). This is the same resource that will be used for the Super Quiz.

Science: The Definitive Visual Guide, by Robert Dinwiddie, Giles Sparrow, Marcus Weeks, Carole Stott, Jack Challoner, David Hughes, David Burnie, and Adam Hart-Davis

- **Age Range:** 10 and up
- **Paperback:** 512 pages
- **Publisher:** DK Publishing; Reprint edition (September 19, 2011)
- **Language:** English
- **ISBN-10:** 0756689015
- **ISBN-13:** 978-0756689018
Individual Event: Social Studies
The individual social studies test for the 2014 Super Quiz will focus on political thought from Revolutionary Thoughts 1770 – 1848 through the Rise of the Masses 1848 – 1910 (pages 118-214) as found in the resource below. This resource is also being used for the Super Quiz Social Studies test.

The Politic Book
DK Publishing

- Hardcover: 352 pages
- Publisher: DK ADULT (February 18, 2013)
- Language: English
- ISBN-10: 1465402144