

ADVANCED ACADEMIC
PROGRAMS
SPRING HILL ELEMENTARY
SPRING 2018



What are advanced academic services?



FCPS is committed to providing challenging learning experiences for all learners that build on individual strengths and optimize academic potential. In order to meet the needs and develop the potential of advanced learners, FCPS provides a **continuum of advanced academic services.**

Continuum of Advanced Academic Services

Elementary School

Middle School

High School

Young Scholars All Levels K-12

Critical and Creative
Thinking Strategies
Grades K-6
Level I

IBMYP Selected Schools
Grades 6-10

Differentiated Lessons
in Areas of
Academic Strength
Grades K-6
Level II

Honors Courses in Areas
of Academic
Strength / Interest
Grades 7-8

Honors Courses
Advanced Placement
International Baccalaureate
Dual Enrollment
Thomas Jefferson
High School for Science
and Technology

Part-Time Advanced
Academic Program
Grades 3-6
Level III

Full-Time Advanced Academic Program
Grades 3-8
Level IV

A student receiving Advanced Academic services needs a learning environment that...



- Fosters continuous intellectual growth
- Stimulates the imagination
- Promotes inquiry
- Encourages risk-taking
- Nurtures their unique social-emotional needs

The Level IV Program



2017- 2018
28 center schools and
60 Local Level IV
schools

Provide mastery,
enrichment, and
extension of core
curriculum

Differentiated in depth,
breadth, and pace of
instruction

A strong emphasis on
critical and creative
thinking, and problem-
solving

Differentiated curriculum
and instruction in
English, Social Studies,
Math, & Science

Mathematics is
accelerated by one
grade level

Ongoing opportunities
for reflection and self-
assessment

What are Local Level IV Services at **Spring Hill Elementary**?

Full-time center curriculum at the local school

Center eligible students may stay at their local school and receive Level IV services.

Teachers implement the Level IV center curriculum framework that is extended and enriched to provide depth and complexity in the four core subject areas.



Comparison of Local Level IV (LLIV) and Center

	Local Level IV	Center
Curriculum & Resources	Materials from the AAP Curriculum Framework	Materials from the AAP Curriculum Framework
Learning Objectives	AAP POS Alignments	AAP POS Alignments
Teacher Qualification	<ul style="list-style-type: none">• Teachers have 5 years to earn their endorsement in AAP• Teachers have opportunities to attend full-day trainings• AAP teachers plan with other AAP teachers	<ul style="list-style-type: none">• Teachers have 5 years to earn their endorsement in AAP• Teachers have opportunities to attend full-day trainings• AAP teachers plan with other AAP teachers
Class Make-up	<ul style="list-style-type: none">• Only students from the local school may attend• All center eligible students may attend the LLIV program.• Schools may add additional students to the LLIV program in their area(s) of academic strength.	<ul style="list-style-type: none">• Students from multiple schools attend• All students have been found center eligible

Other Comparisons

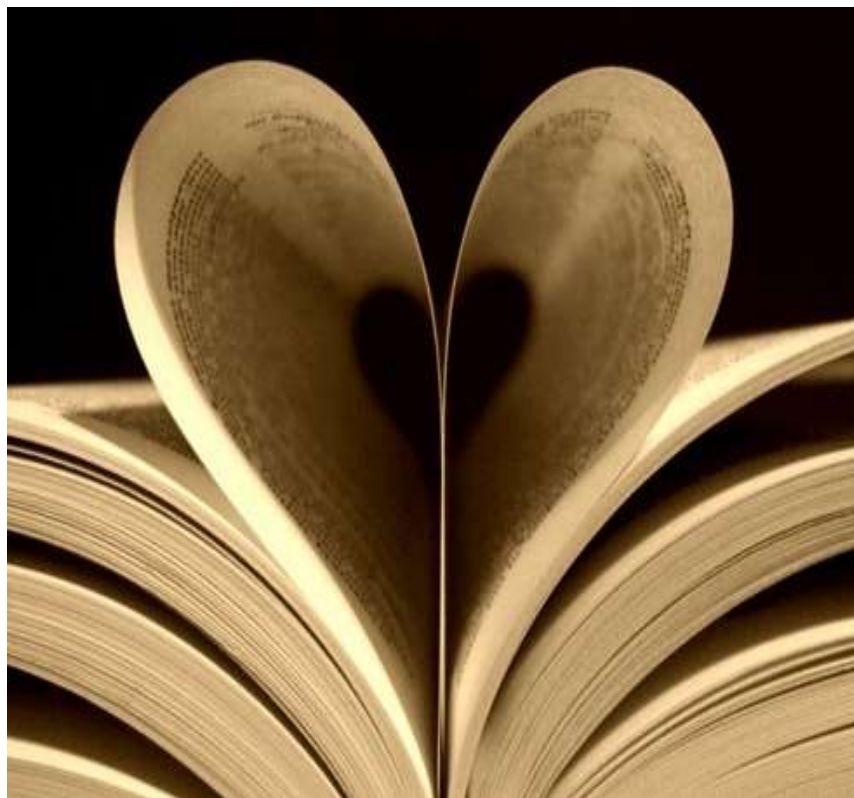
SPRING HILL

- 1041 Students
- 227 Level 4 eligible students enrolled

CHURCHILL ROAD

- About 700 students
- 24 Spring Hill Students attend

Curriculum



Learning opportunities for gifted learners must consist of a continuum of differentiated curricular options, instructional approaches, and resource materials.

- *National Association for Gifted Children Standard*



Intelligence is not how much you know or how fast you learn but how you behave when you don't know the answer.

So . . . if we want to develop children who think critically, we must present curricular problems, challenges, discrepancies or dilemmas for which the answers are not easily accessible.

How is the AAP Curriculum Different?



reason
listen
THINK



Concept-Based Instruction

- “Big Ideas” e.g. change, systems, conflict

Problem-Based Learning

- Real world
- Structured and controlled by teacher but student driven

Students Working as Experts in the Field

- Evidence to support reasoning
- Research
- Scientific reasoning

Problem Solving and Competitions

- Mathematics problem-solving competitions
- Science investigations

AAP Level IV Curriculum Guides

Guides are updated every year by Level IV teachers.

All Level IV teachers have access to the guides

Social Emotional Needs of Advanced Learners

Fostering a positive classroom

Curriculum Framework

Critical and Creative Thinking

Assessments for Growth

POS grade-level and AAP extensions

Concept-based development

Language Arts

Math

Science

Social Studies

Extension of the Core Curriculum

For 3rd- 6th grades

Aligned with progress report standards

Connected to AAP curriculum resources

Language Arts	
Listens and speaks for specific purposes	
3 rd Grade POS	AAP 3 rd Grade Extensions
Listen attentively by making eye contact, facing the speaker, etc.	<ul style="list-style-type: none"> • Participate in group discussions as a listener and a speaker in seminars • Ask clarifying questions and take notes when listening to a speaker • Develop listening/oral communication skills
Ask, respond to questions from teachers, other group members	<ul style="list-style-type: none"> • Participate in group discussions as a listener and a speaker in seminars
Explain what has been learned	<ul style="list-style-type: none"> • Understand and encapsulate the speaker's main points • Articulate understanding of a reading to a partner.

Curriculum Frameworks

Curriculum and Resources to Support the Differentiated Framework Advanced Academic Programs (Levels II, III, and IV) Grade 3

Professional development for use of these resources is provided throughout the year by the Advanced Academics Program Office.

Mathematics	
Essential	Where to Order or Access
Project NP Mentoring Mathematical Minds (Units: MoI Stone, Awesome Algebra, Measurement, Digging for Data) incorporated into the Level IV Teaching Guide – A Companion Piece to the Elementary Mathematics Pacing Guide	ES Advanced Academic Programs 24/7 site www.kendallhunt.com
Parallel Curriculum units and lessons (units: Math Curse, Puzzle Patterns)	ES Advanced Academic Programs 24/7 site
Critical and Creative Thinking – Model Lessons	ES Advanced Academic Programs 24/7 site
Hands-on Equations and Verbal Problems	www.sorenson.com
Supplemental	Where to Order or Access
Great Expectation Problems	ES Advanced Academic Programs 24/7 site
William and Mary Units: Spatial Reasoning and Beyond Base Ten	http://www.groftrock.com/productdetails.dfm?PC=752 http://www.groftrock.com/productdetails.dfm?PC=753
Challenge Math	http://www.groftrock.com/productdetails.dfm?PC=634
Puddle Questions Assessing Mathematical Thinking	www.wrlttersup.com
Groundworks Series (available for 3 strands)	www.wrlttersup.com
Roads to Reasoning*	www.wrlttersup.com
Geometer's Sketchpad	www.geometry.com
Techniques of Problem Solving (TOPS)	www.parrishschool.com
Measured for Life Accompany Publishing Play	www.accompanypublishing.com/measuredforlife.htm
Competitions/Challenges	Where to Order or Access
Continental Math League	www.confmathleague.com/cml.html
Math Olympiads	www.matho.org
Virginia Mathematics League	www.mathleague.com/vtests.htm
Games to Promote Strategic Thinking	Where to Order or Access
Chess	Resources on ES Advanced Academic Programs 24/7
SET Game	www.setgame.com
Krypto Game	http://mpcgames.com
Challenge 24 Games	www.math24.com
Fundamentals*	www.wrlttersup.com

Curriculum and Resources to Support the Differentiated Framework Advanced Academic Programs (Levels II, III, and IV) Grade 3

Professional development for use of these resources is provided throughout the year by the Advanced Academics Program Office.

Social Studies	
Essential	Where to Order or Access
William and Mary Social Studies units on China and Egypt	www.kendallhunt.com
Document Based Questions – Mini-Quiz in World History	http://dbqproject.com/
Parallel Curriculum units and lessons (units on Civilizations, Exploration, Using Primary Source Documents, Rome, Greece, Economics)	ES Advanced Academic Programs 24/7 site
Critical and Creative Thinking – Model Lessons	ES Advanced Academic Programs 24/7 site
Resources for Research	Where to Order or Access
Simulations	www.todayteacher.com/Simulation.htm
Web Inquiries/Quests	www.webquest.org
Library of Congress Teaching with Primary Sources	http://tpsw.org/index.php
Language Arts	
Essential	Where to Order or Access
William and Mary Language Arts Units	http://www.kendallhunt.com
William and Mary Navigator Novel Guides	http://lcfes.wm.edu/curr_language.htm#navigator
Building Language	www.riva.com/series63.htm#L4
Jacob's Ladder Levels I-III	http://www.groftrock.com/searchproducts.dfm
Writing Workshop for Advanced Learners	ES Advanced Academic Programs 24/7 site
Socratic Seminar Guides	ES Advanced Academic Programs 24/7 site
Touchstones Teacher's Guide A and/or B	http://www.touchstones.org/
The Great Debate Guide	ES Advanced Academic Programs 24/7 site
Critical and Creative Thinking – Model Lessons	ES Advanced Academic Programs 24/7 site
Parallel Curriculum units and lessons (unit: biographies)	ES Advanced Academic Programs 24/7 site
Discussion and Research	Where to Order or Access
This is Only a Test Accompany Publishing Play	www.accompanypublishing.com/thasonyatest.htm
Junior Great Books	www.greatbooks.org/index.php?id=tab2006
Renzulli Learning	www.renzullilearning.org
Philosophers Club	www.philosophers.org
	www.mtholyoke.edu/acad/adult/phil/series.html
Word Study Resources	Where to Order or Access
Word Journeys by Kathy Ganske	www.amazon.com
Latin: Classical Studies Unit*	ES Advanced Academic Programs 24/7 site

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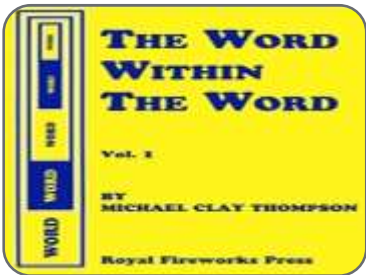
Science	
Essential	Where to Order or Access
William and Mary Problem-Based Learning units (Where's the Beach, What's Find)	www.kendallhunt.com/index.cfm?PC=213079-250
Project Clarion units (Dig It, Invent to Invent, What's the Matter)	ES Advanced Academic Programs 24/7 site
Parallel Curriculum units and lessons (Rock Stars, Butterflies, Simple Compound Machines, Cycles)	ES Advanced Academic Programs 24/7 site
Science Investigation and Research	Where to Order or Access
Puddle Questions for Science	www.wrlttersup.com
Critical and Creative Thinking – Model Lessons	ES Advanced Academic Programs 24/7 site
Experimental Design and Research	ES Advanced Academic Programs 24/7 site
CPO Science Connections	ES Advanced Academic Programs 24/7 site
Simulations	www.interact-simulations.com
Web Inquiries/Quests and web resources	www.webquest.org
Renzulli Learning	www.renzullilearning.org
Engineering is Elementary	http://www.mos.org/ie/
Children as Builders Engineering Project*	ES Advanced Academic Programs 24/7 site
Science Team Competitions	Where to Order or Access
Exploration	www.exploravision.org/teacherresources
Science Olympiad	http://sotinc.org/
Odyssey of the Mind	http://www.odysseyofthemind.com/

Language Arts- Essential Curriculum



William and Mary Language Arts

- 3rd: *Journeys and Destinations* and/or *Explore, Discover, Reveal*
- 4th: *Literary Reflections* or *Patterns of Change*
- 5th: *Autobiographies*
- 6th: *Persuasion*



Michael Clay Thompson- Vocabulary and Grammar

- 3rd: *Building Language & Grammar Island*
- 4th: *Caesar's English I & Grammar Town*
- 5th: *Caesar's English II & Grammar Voyage*
- 6th: *The Vocabulary of Literature & The Grammar of Literature*



- Jacob's Ladder
- Reading Above
- The Great Debate
- Socratic Seminar

Science- Essential Curriculum



William and Mary Science

- 3rd: *Where's the Beach?*
- 4th: *Electricity City*
- 5th: *Something Fishy*
- 6th: *Nuclear Energy Friend or Foe*



Project Clarion- 3rd Grade

- *Dig It*
- *Invitation to Invent*
- *What's the Matter*

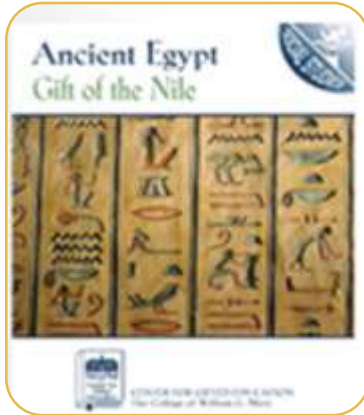


JASON Project

- 4th- *Monster Storms & Infinite Potential*
- 5th- *Tectonic Fury, World of Waves*
- 6th- *Monster Storms & Infinite Potential*

Social Studies- Essential Curriculum

William and Mary Social Studies Units



- **3rd**: *Ancient Egypt; Ancient China*
- **4th**: *Building a New System: Colonial America 1607-1763; The World Turned Upside Down: The American Revolution*
- **6th**: *A House Divided? The Civil War: Its Causes and Effects; The Road to the White House: Electing the American President*

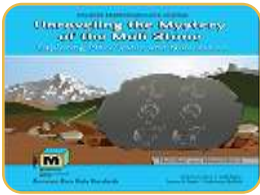


Document Based Questions

- **3rd & 5th**: *Mini-Q in World History 1*
- **4th & 6th**: *Mini-Q in American History 1*

Mathematics- Essential Curriculum

3rd Grade



- Unraveling the Mystery of the MoLi Stone: Place Value & Numeration
- How Big is Big?: Understanding & Using Large Numbers
- Awesome Algebra: Looking for Patterns & Generalizations
- Digging for Data: Collecting, Displaying and Analyzing Data
- In Search of the Yeti: Measuring Up, Down and All Around

4th Grade



- Factors, Multiples & Leftovers: Linking Multiplication and Division
- The Tenth Street Pet Sanctuary: Understanding and Using Decimals
- At the Mall with Algebra: Working with Variables and Equations
- Getting Into Shapes: Exploring Relationships Among 2-D and 3-D Shapes

5th Grade



- Treasures from the Attic: Exploring Fractions
- What are Your Chances? Probability in Action
- Record Makers and Breakers: Analyzing Graphs, Tables and Equations
- Designer Boxes: Exploring Volume and Surface Area

6th Grade



- Our Environment Matters: Making Sense of Percents
- Designer Boxes: Exploring Volume and Surface Area

What can I do to support my child?



Work with your child to identify strategies for improvement.

Involve your child in the problem-solving process

If your child identifies an area of weakness or is struggling, help him/her establish a concrete plan for improvement.

Follow up with your child, and help him/her evaluate the process and refine the solution if necessary.

Regularly talk about things you have learned or challenges you have faced from childhood to adulthood.

Reframe failures to setbacks and criticism to feedback.

Emphasize effort/process rather than achievement/outcome

Parent Resources

Advanced Academic Programs
website:

<https://www.fcps.edu/academics/academic-overview/advanced-academic-programs>

National Association for the Gifted

<http://www.nagc.org>

Virginia Association for the Gifted

www.vagifted.org





Questions

Answers

THANK YOU !

