

# Enrichment Opportunities

Parent Coffee 1-11-18

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# Mathematics

- All grade levels, K-5, have enrichment opportunities each week in the curriculum.
- Most students are served well by grade level mathematics with enrichment.
- K-2 is a “master class” in addition and subtraction
- 3-5 is a “master class” in multiplication, division, and fractions

- **Understanding**—comprehending concepts, operations, and relations
- **Computing**—carrying out procedures
- **Applying**—formulating and solving mathematical problems
- **Reasoning**—using logic to explain a solution or justify why the mathematics works
- **Engaging**—seeing math as useful, sensible, and doable

## Butterfly Flowers

Stage: 1 ★

Look at the butterflies and the numbers they have. The flowers also have numbers.

Can you find 2 butterflies to go on each flower so that the numbers on each pair of butterflies adds to the same number as the one on the flower?

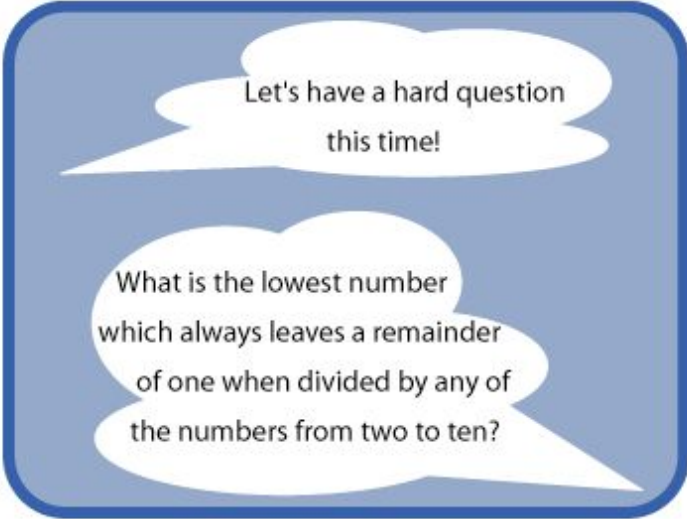


Which pair of butterflies has no flower to go to?

Which flower cannot have a pair of butterflies on it?

# Divide it Out

Stage: 2 ★★ ★



Let's have a hard question  
this time!

What is the lowest number  
which always leaves a remainder  
of one when divided by any of  
the numbers from two to ten?

# Mathematics Pathways

- In Grade 4, an accelerated math pathway begins, known as 4/5 Accelerated Math or 4/5 Compacted Math. It continues through Grade 5 as Accelerated 5/6 Math or 5/6 Compacted Math.
  - The course compacts three years of math into two years.
  - The end result is students gain one extra year of mathematics in high school.
  - The pace and structure of the class matches best with students who learn mathematics concepts quickly and deeply.
  - Recommendations are made at the end of Grade 3.

Elementary						Middle			High			
K	1	2	3	4	5	6	7	8	9	10	11	12
C2.0 Math K*	C2.0 Math 1*	C2.0 Math 2*	C2.0 Math 3*	C2.0 Math 4*	C2.0 Math 5*	C2.0 Math 6*	C2.0 I.M.**	C2.0 Algebra 1	C2.0 Geometry	C2.0 Algebra 2	C2.0 Pre-Calculus	AP***
			C2.0 4/5	C2.0 5/6		C2.0 I.M.**	C2.0 Alg. 1	C2.0 Geom.	C2.0 Alg. 2	C2.0 Pre-Cal.	AP***	AP***
							C2.0 Math 7	C2.0 Math 8	C2.0 Alg. 1	C2.0 Geom.	C2.0 Alg. 2	C2.0 Pre-Cal.

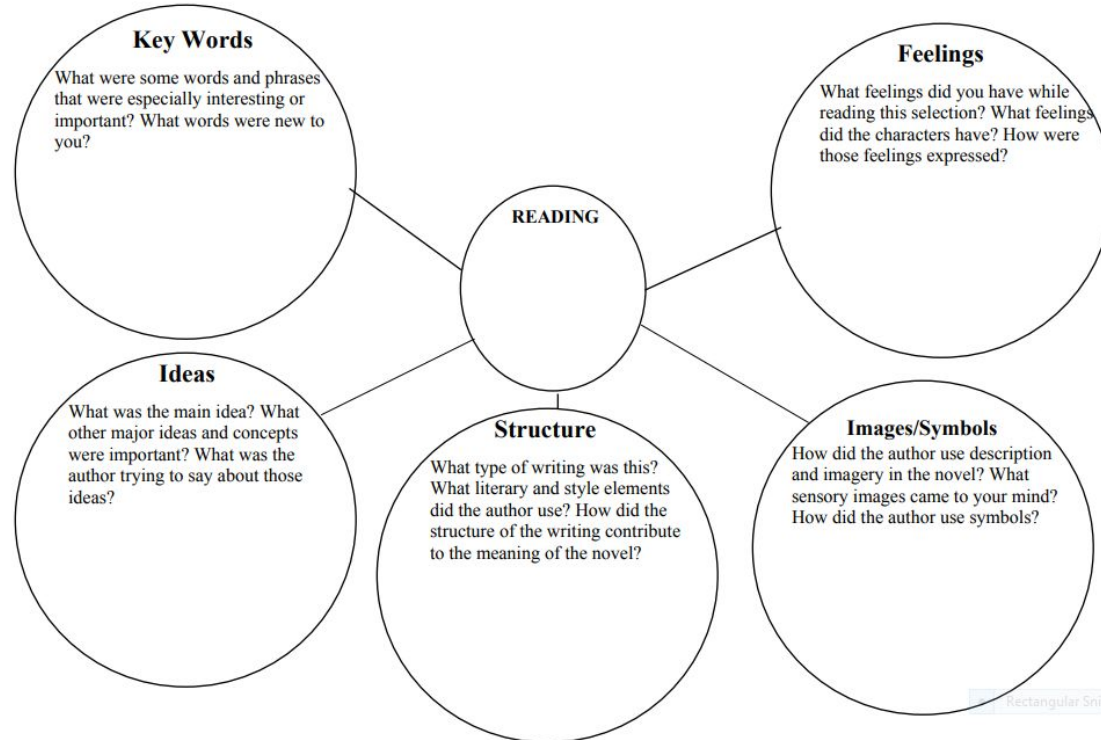
\* Including MCPS enrichment and acceleration opportunities  
 \*\* Investigations in Math

\*\*\* Advanced Placement Calculus, Advanced Placement Statistics, or other college-level courses

# Language Arts

- Guided Reading is differentiated based on reading levels
- Junior Great Books for all (K-5)
  - Shared Inquiry Method
  - All students participate
- William and Mary Language Arts Program (2-5)
  - Change model
  - Vocabulary webs
  - Literature webs
- Inquiry Projects by marking period
- Literature Circles

## Literature Web



Rectangular Snip

# William and Mary Vocabulary Web

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Vocabulary Web

<b>Word Families</b> _____ _____ _____ _____ _____ _____ _____	<b>Synonyms</b> _____ _____ _____	<b>Antonyms</b> _____ _____ _____
<b>Dictionary Definition</b> _____ _____ _____ _____		
<b>Analysis</b>	<b>Word</b> _____	<b>Sentence in Text</b> _____ _____ _____ _____ _____
<b>Part of Speech</b> _____ _____	<b>Origin</b> _____ _____ _____	
<b>Stems</b> _____ _____ _____	<b>Student Example</b> _____ _____ _____ _____	

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# William and Mary Change Model

## Change Model

List or draw examples for each of the generalizations about change.

Change is linked to time:

Change is everywhere:

Change:

Change may be positive:

Change may be perceived as orderly:

...or negative:

...or random:

Change may happen naturally:

# Grade 2 Global Screening

- All Grade 2 students (or new in Grades 3, 4, or 5) participate in the SIPPI process: Student Instructional Program Planning and Implementation
- Required by the Code of Maryland (COMAR) to identify students as gifted/talented
- SIPPI is mostly about gathering data on students to ensure an adequate level of challenge in subsequent grades
- The gifted/talented “label” is NOT used in any selection process

# Special Programs

- Centers for Enriched Studies - considered in Grade 3 to attend the CES at Lucy V. Barnsley Elementary School in Grades 4 and 5
  - **Information Meeting: January 24, 7:00 pm at Richard Montgomery High School**
- Middle School Magnet Selective Programs - considered in Grade 5 to attend for Grades 6, 7, and 8
  - Science, Mathematics, Computer Science at Takoma Park Middle School
  - Humanities and Communications at Eastern Middle School
- Middle School Magnet Consortium - participate in the Choice process in the fall of Grade 5 to attend for Grades 6, 7, and 8
  - Digital Design and Development at Argyle
  - Creative and Performing Arts at A. Mario Loiederman
  - Aerospace Technology at Parkland

<http://www.montgomeryschoolsmd.org/curriculum/specialprograms/>