Appendices A-E

FINAL REPORT OF THE STUDY OF ADEQUACY OF FUNDING FOR EDUCATION IN MARYLAND

Prepared for

Maryland State Department of Education

Ву

APA Consulting

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Appendix A

Previously Released Reports

Below is a list of suggested citations for previously released reports for the Maryland adequacy study. All the information (meeting information, reports, and supplemental materials) pertaining to the study can be found at <u>http://marylandpublicschools.org/Pages/adequacystudy/index.aspx.</u>

- Aportela, A., Picus, L., Odden, A. & Fermanich, M. (2014). *A Comprehensive Review of State Adequacy Studies Since 2003.* Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/AdequacyReviewReport_rev_091</u> 214.pdf
- Humann, C. & Fermanich, M. (2014). Summary of School Size Report. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/SchoolSizeReportr091114.pdf</u>
- Fermanich, M., Picus, L. O. & Odden, A. (2014). Proposed Methodology for Establishing Adequate Funding Levels in the State of Maryland. Denver, CO: Augenblick, Palaich & Associates. Retrieved at:

http://marylandpublicschools.org/Documents/adequacystudy/ProposedMethodsEstablishingAd equatyFundingLevelsMD.pdf

- Humann, C. & Griffin, S. (2014). Preliminary Report on the Impact of School Size. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/PreliminaryImpactofSchoolSize.p</u> <u>df</u>
- Fermanich, M. L. & Picus, L. O. (2015). Adequacy Cost Study: An Interim Report on Methodology and Progress. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/InterimAdequacyStudyReport-071015Final.pdf</u>
- Croninger, R. G., King Rice, J. & Checovish, L. (2015). Evaluation of the Use of Free- and Reduced-Price Meal Eligibility as a Proxy for Identifying Economically Disadvantaged Students: Alternative Measures and Recommendations. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/EvaluationFRPMEligibilityProxyEconomicDisadvantage.pdf</u>
- Humann, C., Palaich, R., Fermanich, M. and Griffin, S. (2015). Final School Size Study Report: Impact of Smaller Schools. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/SchoolSizeReport071615.pdf</u>
- Hartman, W. & Schoch, R. (2015). *Final Report of the Study of Increasing and Declining Enrollment in Maryland Public Schools*. Denver, CO: Augenblick, Palaich & Associates. Retrieved at:

http://marylandpublicschools.org/Documents/adequacystudy/MDEnrollmentReportFinal-071815.pdf

- Imazeki, J. (2015, November). A Geographic Cost of Education Adjustment for Maryland. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/APA-POA-GCEI-Report-Rev-</u> 11232015.pdf
- Glenn, W. J., Griffith, M., Picus, L.O., & Odden, A. (2015). Analysis of School Finance Equity and Local Wealth Measures in Maryland. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/APA-POA-</u> <u>MarylandWealthEquityReport-Rev121115.pdf</u>

 Wool, S., Fermanich, M., & Reichardt, R. (2015, December). The Effects of Concentrations of Poverty on School Performance and School Resource Needs: A Literature Review. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/ConcentratedPovertyLitReviewFinalDraft-071015.pdf</u>

- Workman, S., Palaich, R., & Wool, S. (2016, January). A Comprehensive Analysis of Prekindergarten in Maryland. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/MDPreKComprehensiveAnalysis0</u> <u>11316.pdf</u>
- Imazeki, J. (2016, June). A Comparable Wage Index for Maryland. Denver, CO: Augenblick, Palaich & Associates. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/APAPOAGCEIFinalReport070716.</u> <u>pdf</u>
- Augenblick, Palaich & Associates. (2016, September). *Adequacy Study: Draft Final Report*. Denver, CO: Author. Retrieved at: <u>http://marylandpublicschools.org/Documents/adequacystudy/AdequacyStudyDraftReport0930</u> <u>2016.pdf</u>

Appendix B

Professional Judgment Panel and Evidence-Based Panel Materials

Appendix B.1: Professional Judgment Panel and Evidence-Based Panel Membership and Participants

 Table B.1

 CHARACTERISTICS AND COUNTS OF MARYLAND PROFESSIONAL JUDGMENT PANEL PARTICIPANTS

| | | Panel Type | e | | | | | Numbers | of Participant | s by Role | | | | |
|-----------------|-----------------|---------------------------|----------------------|--------------------------|---------------------------------|---|--|---|--|-----------------------------------|-------------------------------|---------------------------|---|------------------------------------|
| Panel Number | Level | School Type | Student Type | Time Needed (Days) | Location of Panel Meeting | Teacher/ Coordinator | Principal | District Superintent or Instructional Leader | Director of Special Ed, ELL, ECE or Student Services | Tech Specialist or Director | CFO or Business Manager | School Board Member | Representative of MSDE, the Division of Early Childhood Development (Office of Childcare) | Total Participants per Panel |
| 1 | School | Preschool | Regular, At-Risk | 1.0 | Balt. | 2 Preschool Teachers/Coordinators | 3 Elementary Principals | 1 | 1 Director of Preschool /ECE | | 1 | | 1 | 9 |
| 2 | School | Elementary | Regular, At-Risk | 1.5 | Balt. | 2 Elementary Teachers | 3 Elementary Principals | 1 | | 1 | 1 | | | 8 |
| 3 | School | Middle | Regular, At-Risk | 1.5 | Balt. | 2 Middle School Teachers | 3 Middle School Principals | 1 | | 1 | 1 | | | 8 |
| 4 | School | High School | Regular, At-Risk | 1.5 | Balt. | 2 High School Teachers | 3 High School Principals | 1 | | 1 | 1 | | | 8 |
| 5 | Special Need | Elementary, Middle, HS | ELL | 1.0 | Balt. | 1 Elementary ELL Lead Teacher Coordinator 1 Middle School ELL Lead Teacher/Coordinator 1 High School ELL Lead Teacher/Coordinator | 1 Elementary Principal, 1 Middle School Principal, 1 High School Principal | 1 | 1 Director of ELL | | 1 | | | 9 |
| 6 | Special Need | Elementary, Middle, HS | Special Education | 1.0 | | 1 Elementary SpEd Lead Teacher/Coordinator 1 Middle School SpEd Lead Teacher/Coordinator 1 High School SpEd Lead Teacher/Coordinator | 1 Elementary Principal, 1 Middle School Principal, 1 High School Principal | 1 | 1 Director of Special Ed | | 1 | | | 9 |
| 7 | District | All | All | 2.0 | Balt. | 1 | 1 Elementary Principal, 1 Secondary Principal | 3 | 1 Director of Student Services | 1 | 1 | 1 | | 10 |
| 8 | CFO | All | All | 1.0 | Balt. | | | | | | 6 | | | 6 |
| 9 | Statewide | All | All | 1.0 | Balt. | 1 | 1 Elementary Principal, 1 Secondary Principal | 3 | 1 | | 2 | 1 | | 10 |
| TOTAL PA | RTICIPANTS | | | | | 16 | 22 | 12 | 5 | 4 | 15 | 2 | 1 | 77 |

| Panel Type | Numbers of Participants by Role | | | | | | | | | |
|---|---------------------------------|---|--|---|--|--|-----------------------------------|-------------------------------|---------------------------|------------------------------------|
| Panel Number Level School Type Student Type (Days) | Location of Panel Meeting | Teacher/ Coordinator | Principal | District Superintent or Instructional Leader | Director of Special Ed, ELL, ECE or Student Services | Director or Assistant Supt. of Curriculum | Tech Specialist or Director | CFO or Business Manager | School Board Member | Total Participants per Panel |
| 1 Multiple Multiple All 1.5 | North Bel Air | 1 Elementary Teacher 1 Middle School Teacher 1 High School Teacher 1 Preschool Teacher 1 SpEd Teacher 1 ELL Teacher 1 Lead Teacher - for example teacher team leader 1 Instructional Coach 1 Tutor | 1 Elementary Principal 1 Middle School Principal 1 High School Principal | 1 | 2 | 1 | 1 | 1 | 1 | 19 |
| 2 Multiple Multiple All 1.5 | South Largo | 1 Elementary Teacher 1 Middle School Teacher 1 High School Teacher 1 Preschool Teacher 1 SpEd Teacher 1 ELL Teacher 1 Lead Teacher - for example teacher team leader 1 Instructional Coach 1 Tutor | 1 Elementary Principal 1 Middle School Principal 1 High School Principal | 1 | 2 | 1 | 1 | 1 | 1 | 19 |
| 3 Multiple Multiple All 1.5 | East Chester- town | 1 Elementary Teacher 1 Middle School Teacher 1 High School Teacher 1 Preschool Teacher 1 SpEd Teacher 1 ELL Teacher 1 Lead Teacher - for example teacher team leader 1 Instructional Coach 1 Tutor | 1 Elementary Principal 1 Middle School Principal 1 High School Principal | 1 | 2 | 1 | 1 | 1 | 1 | 19 |
| 4 Multiple Multiple All 1.5 | West Cumber- land | 1 Elementary Teacher 1 Middle School Teacher 1 High School Teacher 1 Preschool Teacher 1 SpEd Teacher 1 ELL Teacher 1 Lead Teacher - for example teacher team leader 1 Instructional Coach 1 Tutor | 1 Elementary Principal 1 Middle School Principal 1 High School Principal | 1 | 2 | 1 | 1 | 1 | 1 | 19 |
| TOTAL PARTICIPANTS | | 36 | 12 | 4 | 8 | 4 | 4 | 4 | 4 | 76 |

 Table B.2

 CHARACTERISTICS AND COUNTS OF MARYLAND EVIDENCE-BASED PROFESSIONAL JUDGMENT PANEL PARTICIPANTS

7

| Panel | LEA | Role | First Name | Last Name | Title |
|----------|------------------|--|------------|------------|---|
| CFO | Carroll | CFO or Business Manager | Chris | Hartlove | Chief Financial Officer |
| | Frederick | CFO or Business Manager | Leslie | Pellegrino | Central Office |
| | Garrett | CFO or Business Manager | Larry | McKenzie | Director of Finance |
| | Prince George's | CFO or Business Manager | John | Pfister | Director of Budget and Management Services |
| | Queen Anne's | CFO or Business Manager | Robin | Landgraf | CFO, CO |
| | St. Mary's | CFO or Business Manager | Tammy | McCourt | Assistant Superintendent, Finance |
| District | Frederick | District Superintendent or Instructional Leader | Kevin | Cuppett | Central Office |
| | Garrett | District Superintendent or Instructional Leader | Barbara | Baker | Assistant Superintendent of Educational Services |
| | Carroll | CFO or Business Manager | Chris | Hartlove | Chief Financial Officer |
| | Kent | Director of Student Services | Darlene | Spurrier | Supervisor of Student Services |
| | Washington | Tech Specialist or Director | Jim | Corns | Chief Operations Officer Instructional Technology |
| | Anne Arundel | Principal | Nuria | Williams | Principal, Crofton |
| | Howard | Principal | James | LeMon | Principal, Wilde Lake HS |
| | Baltimore County | Teacher/Coordinator | Orly | Mondell | Teacher, New Town High School |
| | MABE | Board Member | William | Phalen | Board Member |
| ELL | Dorchester | Director of ELL | Theresa | Connors | Supervisor of English/ELL |
| | Frederick | Principal | Kathy | Swire | Myersville Elementary |
| | Harford | Principal | Larissa | Santos | Principal/Edgewood |
| | Washington | Principal | James | Aleshire | Principal, North Hagerstown High |
| | Anne Arundel | Teacher/Coordinator | Cheryl | Menke | Teacher Specialist |
| | Cecil | Teacher/Coordinator | Enid | Lum | Teacher, ESOL multi-school |
| | Montgomery | Teacher/Coordinator | Sonja | Bloetner | Secondary ESOL |
| | | | | | |
| | | | | | |

 Table B.3

 PROFESSIONAL JUDGMENT PANEL PARTICIPANTS

| Panel | LEA | Role | First Name | Last Name | Title |
|------------------|------------------|--|------------|------------|--|
| Elementary | Washington | District Superintendent or Instructional Leader | Peggy | Pugh | Associate Superintendent for Curriculum and Instruction |
| | Calvert | Tech Specialist or Director | Jon | McClellan | Director of Instructional and Informational Technology |
| | Harford | CFO or Business Manager | Eric | Clark | Director of Budget |
| | Harford | Principal | Patty | Mason | Principal/Magnolia |
| | Howard | Principal | Maisha | Strong | Principal, Swansfield ES |
| | Kent | Principal | Dawn | VanGrin | Principal of Galena Elementary |
| | Allegany | Teacher/Coordinator | Dana | Reinhardt | Third Grade Teacher - George's Creek Elementary School; 2014-15 Teacher of the Year |
| | Baltimore City | Teacher/Coordinator | Katrina | Kickbush | Wolfe Street Academy |
| High School | Cecil | District Superintendent or Instructional Leader | Carolyn | Teigland | Assoc. Supt for Education Services |
| | Garrett | Tech Specialist or Director | Jeff | Gank | Director of Information Technology |
| | Howard | CFO or Business Manager | Beverly | Davis | Executive Director, Budget and Finance |
| | Allegany | Principal | Stephanie | Wesolowski | Assistant Principal/Academic Dean - Mountain Ridge High School |
| | Somerset | Principal | Sidney | Hankerson | Principal (Washington H. S.) |
| | Baltimore County | Teacher/Coordinator | Sean | McComb | ELA, Patapsco High School and Center for the Arts |
| | Prince George's | Teacher/Coordinator | Effie | Hillian | English Dept. Chair, Oxon Hill High School |
| Middle School | Anne Arundel | District Superintendent or Instructional Leader | Jolyn | Davis | Director, School Performance |
| | Caroline | CFO or Business Manager | Erin | Thornton | Comptroller |
| | Caroline | Teacher/Coordinator | Heather | Harper | Teacher, Colonel Richardson Middle School |
| | Howard | Tech Specialist or Director | Shelly | Barnett | Manager, Enterprise Systems |
| | Allegany | Principal | Tessa | Fairall | Assistant Principal at Washington Middle School |
| | Baltimore City | Principal | Najib | Jammal | Principal, Lakeland Elem./Middle |
| | Montgomery | Principal | Monifa | McKnight | Ridgeview MS |
| | Washington | Teacher/Coordinator | Jaime | Mason-Lego | 2010 Teacher of the Year, Clear Spring Middle |
| | | | | | |

| Panel | LEA | Role | First Name | Last Name | Title |
|----------------------|----------------|--|-------------|--------------|-----------------------------------|
| PreK | Baltimore City | Director of Early Childhood | Perry | Gergen | Director of Early Education |
| | Washington | CFO or Business Manager | Eric | Sisler | Financial Budget Analyst |
| | Worcester | Tech Specialist or Director | Thomas | Mascara | Director, Technology |
| | Garrett | Principal | Candy | Maust | Route 40 Elementary |
| | Montgomery | Principal | Annette | Folkes | Roscoe Nix Elementary |
| Special Education | Calvert | District Superintendent or Instructional Leader | Daniel | Curry | Superintendent of Schools |
| | Carroll | Principal | Craig | Dunkelberger | Principal, Piney Ridge Elem. |
| | Queen Anne's | Principal | Amy | Hudock | Principal, CMS |
| | Garrett | Teacher/Coordinator | Katie | Lauder | Special Ed. Teacher |
| | Somerset | Teacher/Coordinator | Fern | Griffith | Special Ed. Teacher |
| | Worcester | Teacher/Coordinator | Jenifer | Heimer | Snow Hill Middle School |
| Statewide | Harford | District Superintendent or Instructional Leader | Barbara | Canavan | Superintendent |
| | Montgomery | District Superintendent or Instructional Leader | Maria | Navarro | Chief Academic Officer |
| | Queen Anne's | District Superintendent or Instructional Leader | Carol | Williamson | Superintendent |
| | St. Mary's | CFO or Business Manager | Tammy | McCourt | Assistant Superintendent, Finance |
| | Wicomico | CFO or Business Manager | Bruce | Ford | Business Manager |
| | Carroll | Principal | Eric | King | Principal, Winters Mill HS |
| | Frederick | Principal | Jenny | Powell | Thurmont Middle |
| | Baltimore City | Teacher/Coordinator | Ryan | Kaiser | Teacher of the Year |
| | MABE | Board Member | Christopher | Barclay | Board Member, Montgomery |

| Panel | Role | District | First Name | Last Name |
|-------|--------|------------------------|------------|----------------|
| East | Elem. | Kent County | Тгасу | Hodge |
| East | ELL | Prince George's County | Kristen | Ford |
| East | High | Dorchester County | Julie | Harp |
| East | Lead | Dorchester County | Natalie | Taylor |
| East | Middle | Wicomico County | Chad | Pavlekovich |
| East | Sped. | Anne Arundel County | Jenna | Freiberg |
| North | Elem. | Howard County | Maleeta | Kitchen |
| North | ELL | Montgomery County | Tamara | Henneman |
| North | High | Harford County | Amanda | Roberts |
| North | Lead | Harford County | Kelly | Mangum |
| North | Middle | Baltimore County | Barbara | Noppinger |
| North | Sped. | Prince George's County | Kelly | Moffett |
| South | Elem. | Charles County | Taniesha | Goulbourne |
| South | ELL | Montgomery County | Susan | Nerlinger |
| South | High | Calvert County | Jamie | Culp |
| South | Lead | Prince George's County | Timonious | Downing |
| South | Middle | Charles County | Joseph | Farrell |
| South | Sped. | Montgomery County | Shannon | Mitchell |
| West | Elem. | Washington County | Megan | Cornelius |
| West | ELL | Washington County | Nitzalis | Rivera |
| West | High | Carroll County | Jennifer | Wennell |
| West | Lead | Carroll County | Thomas | McHugh |
| West | Middle | Allegany County | Deborah | Jackson |
| West | Sped. | Frederick County | Pamela | Adams-Campbell |
| | | | | |

 Table B.4

 EVIDENCE-BASED PROFESSIONAL JUDGMENT PANEL PARTICIPANTS

| Panel | Role | District | First Name | Last Name |
|-------|--|---------------------------------------|------------|---------------|
| East | After-school or extended learning professional | Dorchester County Public Schools | Regina | Teat |
| East | CFO or Business Manager | Worcester County Public Schools | Vince | Tolbert |
| East | Director of sped, ELL, SS, or ECE | Anne Arundel County Public Schools | Bobbi | Pedrick |
| East | Director of sped, ELL, SS, or ECE | Anne Arundel County Public Schools | Kelli | Reider |
| East | Director or Assistant Supt. of Curriculum | Queen Anne's County Public Schools | Anne | Thomas |
| East | District Superintendent, Chief Academic Officer or other Instructional Leader | Somerset County Public Schools | Tom | Davis |
| East | Elementary School Principal | Queen Anne's County Public Schools | Michelle | Carey |
| East | High School Principal | Dorchester County Public Schools | Lynn | Sorrells |
| East | Instructional Coach | Somerset County Public Schools | Tony | Bevilacqua |
| East | Middle School Principal | Somerset County Public Schools | Elizabeth | Marshall |
| East | Prekindergarten Teacher | Worcester County Public Schools | Lucy | Doherty |
| East | School Board Member | Worcester County Public Schools | Bob | Rothermel |
| East | Tech Specialist or Director | Wicomico County Public Schools | Robert | Langan |
| North | After-school or extended learning professional | Baltimore City Public Schools | Glenn | Starnes |
| North | CFO or Business Manager | Carroll County Public Schools | Chris | Hartlove |
| North | Director of sped, ELL, SS, or ECE | Baltimore City Public Schools | Alison | Perkins-Cohen |
| North | Director of sped, ELL, SS, or ECE | Cecil County Public Schools | Sarah | Farr |

| Panel | Role | District | First Name | Last Name |
|-------|--|--|----------------|-----------|
| North | Director or Assistant Supt. of Curriculum | Cecil County Public Schools | Carolyn | Teigland |
| North | District Superintendent, Chief Academic Officer or other Instructional Leader | Harford County Public Schools | Barbara | Canavan |
| North | Elementary School Principal | Baltimore County Public Schools | Jerry (Dwight) | Easterly |
| North | High School Principal | Cecil County Public Schools | Anne | Gellrich |
| North | Instructional Coach | Harford County Public Schools | Erin | Schisler |
| North | Middle School Principal | Harford County Public Schools | Joe | Mascari |
| North | Prekindergarten Teacher | Baltimore City Public Schools | Jody | Fleury |
| North | School Board Member | Harford County Public Schools | Nancy | Reynolds |
| North | Tech Specialist or Director | Baltimore City Public Schools | Bert | Ross |
| South | After-school or extended learning professional | Howard County Public Schools | Marty | Cifrese |
| South | CFO or Business Manager | Montgomery County Public Schools | Tom | Klausing |
| South | Director of sped, ELL, SS, or ECE | Howard County Public Schools | Lisa | Davis |
| South | Director of sped, ELL, SS, or ECE | Howard County Public Schools | Judy | Pattik |
| South | Director or Assistant Supt. of Curriculum | Montgomery County Public Schools | Niki | Hazel |
| South | District Superintendent, Chief Academic Officer or other Instructional Leader | Prince George's County Public Schools | Shawn | Joseph |
| South | Elementary School Principal | Howard County Public Schools | David | Larner |
| South | High School Principal | Baltimore County Public Schools | David | Lloyd |

| Panel | Role | District | First Name | Last Name |
|-------|--|---------------------------------------|------------|-----------|
| South | Instructional Coach | Anne Arundel County Public Schools | Theresa | Gregory |
| South | Middle School Principal | Howard County Public Schools | Shiney | John |
| South | Prekindergarten Teacher | Howard County Public Schools | Dawn | Martinec |
| South | School Board Member | Montgomery County Public Schools | Philip | Kauffman |
| South | Tech Specialist or Director | Howard County Public Schools | Shelly | Barnett |
| West | After-school or extended learning professional | Allegany County Public Schools | Kate | Roberts |
| West | CFO or Business Manager | Garrett County Public Schools | Larry | McKenzie |
| West | Director of sped, ELL, SS, or ECE | Baltimore County Public Schools | Rebecca | Rider |
| West | Director of sped, ELL, SS, or ECE | Frederick County Public Schools | Kathy | Hartsock |
| West | Director or Assistant Supt. of Curriculum | Frederick County Public Schools | Kevin | Cuppett |
| West | District Superintendent, Chief Academic Officer or other Instructional Leader | Garrett County Public Schools | Janet | Wilson |
| West | Elementary School Principal | Allegany County Public Schools | Autumn | Eirich |
| West | High School Principal | Garrett County Public Schools | Jim | Maddy |
| West | Instructional Coach | Carroll County Public Schools | Jamie | Weaver |
| West | Middle School Principal | Carroll County Public Schools | James | Carver |
| West | Prekindergarten Teacher | Baltimore County Public Schools | Susan | Capron |
| West | School Board Member | Allegany County Public Schools | Edward | Root |

| Pane | Role | District | First Name | Last Name |
|------|-----------------------------|-----------------------------------|------------|-----------|
| West | Tech Specialist or Director | Allegany County Public Schools | Nil | Grove |

Appendix B.2: Participant Qualifications for Maryland's Professional Judgment and Evidence-Based Panels: District-Based Panel Participant Qualifications

Below is a list of suggested qualifications for nominating district-based educators to serve on professional judgment and evidence based state, district- and school-level panels. This is a guideline to help the Maryland State Department of Education identify district-based educators who are effective in their positions and knowledgeable about resources necessary to educate all Maryland students to state standards. This is not intended to be an exhaustive or strict list of requirements for participation. Ultimately, it is up to the discretion of the Department to nominate those who it feels are most qualified to successfully fulfill the role of a district representative on the panels.

These are some suggested general guidelines when nominating participants:

- Participants should be experienced. Experience working in more than one school or district is desirable.
- Nominees should be recognized as being successful educators those who have effectively contributed to the success of their students, schools, and districts.
- Participants should, in the aggregate, represent all regions of the State.
- Where possible, nominate administrators/educators possessing indicators of excellence such as past recognition as administrator or educator of the year (e.g. superintendent of the year, principal of the year, etc.), National Board for Teaching Standards certification, or active involvement or leadership in a professional association.

Below is a list of suggested qualifications for specific positions (or their equivalent):

- District Superintendent or Instructional Leader
 - o 7 years of education experience
 - 3 years of district leadership experience
- School Board Member
 - o 3 years serving on a school board
- Director or Assistant Superintendent of Curriculum
 - 7 years of education experience
 - o 3 years of curriculum development experience
- Chief Financial Officer or Business Manager
 - 7 years of education experience
 - 3 years of school finance experience
- Director of Special Education, Limited English Proficient students, at risk programs, or Student Services
 - o 7 years of education experience
 - \circ $\,$ 3 years of leadership in the specified field of special need

- Director of Prekindergarten or Early Childhood Education Programs
 - 7 years of education experience
 - o 3 years of leadership in prekindergarten or early childhood education programs
- Technology Specialist or Director
 - 3 year minimum of experience working in a technology capacity in a school or district
 - Demonstrated knowledge of instructional technology needs for educational achievement

Appendix B.3: Participant Qualifications for Maryland's Professional Judgment and Evidence Based Panels: School-Based Panel Participant Qualifications

Below is a list of suggested qualifications for nominating school-based educators to serve on professional judgment and evidence based state, district- and school-level panels. This is a guideline to help district leaders identify educators who are effective in their positions and knowledgeable about resources necessary to educate all Maryland students to state standards. This is not intended to be an exhaustive or strict list of requirements for participation. Ultimately, it is up to the discretion of Maryland's education leaders to nominate educators who they feel are most qualified to successfully fulfill the role of school-based representatives on the panels.

These are some suggested general guidelines when nominating participants:

- Participants should be experienced. Experience working in more than one school or district is desirable.
- Nominees should be recognized as being successful educators those who have effectively contributed to the success of their students and schools.
- Where possible, nominate educators possessing indicators of excellence, such as recognition as Educator of the Year (e.g. Principal of the Year, Teacher of the Year, etc.), National Board for Teaching Standards certification, or active involvement or leadership in a professional association.

Below is a list of suggested qualifications for specific positions:

- Teacher (Including general education teachers, prekindergarten teachers, LEP teachers, special education teachers, Title I teachers, etc.). Teachers are needed for all levels of schooling, e.g. elementary, middle and high school.
 - 5 years minimum of teaching experience, with at least 2 years in Maryland.
 - If the teacher being selected is for a specialized teaching position such as an LEP teacher or special education teacher, at least 1 year in the specialized role in addition to 4 years of general teaching experience.
- Teacher Leader/Coordinator (Including specialized teacher positions such as master teacher, teacher leader, prekindergarten program coordinator, LEP teacher leader/coordinator, special education lead teacher/coordinator, etc.). Teacher leaders/coordinators are needed for all levels of schooling, e.g. elementary, middle and high school.
 - \circ 5 years minimum of teaching experience, with at least 2 years in Maryland.
 - If the teacher being selected is for a specialized position such as LEP or special education teacher leader or coordinator, at least 1 year in the specialized role in addition to 4 years of general teaching experience.
- Instructional Coach
 - o 3 years minimum of instructional coaching experience
 - o Possess a track record of increasing teacher quality

- Tutor
 - o Should be a certificated teacher, not an aide or volunteer
 - 3 years minimum of tutoring experience
 - Possess a track record of increasing student performance
- Principal (Principals are needed for all levels of schooling, e.g. elementary, middle and high school).
 - 7 years of education experience
 - 3 years of experience in school-level administrative leadership roles, including at least one year as principal
 - Highly qualified assistant principals may be substituted if they possess the same level of experience, e.g. 7 years of education experience, 3 years of experience in school-level administrative leadership roles, and at least one year as an assistant principal

Appendix B.4: Professional Judgment and Evidence-Based Professional Judgment Panel Participant Nomination Memo

To: Maryland Education Leaders

From: Maryland State Department of Education on behalf of Augenblick, Palaich and Associates; Picus Odden and Associates; and Maryland Equity Project

Date:

Re: Nominating Educators to Serve on Professional Judgment and Evidence Based Panels

As you may be aware, the Maryland State Department of Education has contracted with Augenblick, Palaich, and Associates (APA), in partnership with Picus Odden and Associates (POA) and the Maryland Equity Project (MEP), to study the adequacy of school funding in the state of Maryland. Two of the approaches the research team will use for estimating adequacy are the professional judgment and evidence based approaches. Both of these approaches involve inviting educators to participate in a series of panels where they will share their expertise and experiences to help the research team understand the resources needed to educate students to Maryland's academic standards.

To ensure the success of the panels, we need your help in identifying experienced educators from schools that have been successful in educating all students or with a track record of individual success in working with students. You will find an attached document describing the preferred guidelines and criteria for nominating educators to participate on these panels. Please provide the name, position, school, district, phone number, and email of the nominee.

Once we have received your nominations, we will contact the nominees directly. Most teachers and principals will be asked to serve on panels for identifying school-based resources. One set of these school panels, which focuses on the evidence based approach, will be managed by POA and will be held this summer during the week of June 22-26. A second set of school panels focused on the professional judgment approach will be managed by APA and be held in the fall of 2015 after the start of the school year. A small number of teachers and principals will be asked to serve on panels that look at resources from a district or state perspective. These panels will be held later in the fall and winter. The exact dates, locations, and other details are still to be determined. Most panels meet for one day, while several panels meet for up to two days. Lunch will be provided whenever a panel meets past noon. We understand the time of educators is valuable, and will do everything in our abilities to minimize conflicts with work duties of the nominees in this process. We do not anticipate any educator being asked to serve on more than one panel. Your district will be reimbursed for the cost of substitute teachers if they are needed to provide release time for participating teachers. A stipend will be paid to teachers serving on panels held in June.

Please feel free to contact the Maryland State Department of Education (should add designated contact here) if you have any questions. Thank you very much for your cooperation in this process! We look forward to working with you.

Appendix B.5: Review of Maryland Requirements for Schools and Districts

The following is a brief review of key requirements for schools and districts in Maryland. All language is derived directly from the following sources: the Maryland State Department of Education and the State Board of Education (through the MSDE website and the Maryland Report Card website); and the 2014 Legislative Handbook Series Volume IX: Education in Maryland.

Compulsory Education and Minimum Days/Hours of Instruction¹

Maryland law requires all children between the ages of 5 and 16 who live in the state to attend school. Also, every child must attend kindergarten before entering grade one. A child may be excused from going to kindergarten if he or she is in a full-time licensed childcare center, a full-time registered family day-care home, or is in a Head Start five-year-old program part time.

Under the new Age of Compulsory School Attendance law (Senate Bill 362, signed into law in 2012), the age for compulsory school attendance will rise to 17 in the 2015-2016 school year, and to 18 in the 2017-2018 school year.

Public schools must be open at least 180 days over a 10-month period and must provide at least 1,080 hours of instruction for elementary and middle schools and 1,170 hours for high schools.

Maryland College and Career Standards²

Schools across the State in 2013-14 have implemented Maryland's College and Career-Ready Standards. These standards incorporate the Common Core State standards. Maryland was one of the first states to adopt the standards in reading/English language arts and mathematics. The Maryland State Board of Education adopted the standards by unanimous vote in June 2010. The Next Generation Science Standards were also adopted in June 2013. These rigorous education standards establish a set of shared goals and expectations for what students should understand and be able to do in grades Kindergarten to grade 12 in order to be prepared for success in college and the workplace.

The Maryland State Department of Education had previously developed, and the State Board of Education had approved, a statewide curriculum or State standards that define what students should know and be able to do in the additional subject areas of fine arts, social studies, health, world languages, Limited English Proficient students, school-library media, financial literacy, environmental education, technology education, and physical education. For some of these curricula the standards, indicators, and objectives are written grade by grade, while others are written in three grade bands consisting of grade three through grade five, grade six through grade eight, and grade nine through grade twelve.

¹ Legislative Handbook

² Maryland State Department of Education website and legislative handbook

Graduation Requirements³

As of 2005, to be awarded a diploma, a student shall be enrolled in a Maryland public school system and have earned a minimum of 21 credits that include the following:

| Subject Area | Specific Credit Requirements |
|----------------------|--|
| English | 4 credits |
| Mathematics | 3 credits |
| | 1 in algebra, 1 in geometry, 1 in another area |
| Science | 3 credits |
| | 1 in biology, 2 that must include lab experience in any or all of the following areas: earth science, life science, physical science |
| Social Studies | 3 credits |
| | 1 in U.S. History, 1 in World History, 1 in local, state or national government |
| Fine Arts | 1 credit |
| Physical Education | ½ credit |
| Health | ½ credit |
| Technology Education | 1 credit |
| Other | 2 credits in World Language or |
| | 2 credits in American Sign Language or |
| | 2 credits in Advanced Technology Education and |
| | 3 credits in electives |
| | <u>or</u> |
| | 4 credits in a state-approved career and technology program and |
| | 1 credit of elective |

Additional Mathematics Course Requirement⁴

In addition to the Maryland College and Career-Ready Standards, the College and Career Readiness and College Completion Act of 2013 established further requirements for mathematics. Beginning with the grade nine class of the 2014-2015 school year, each student is required to enroll in a mathematics course during each year that the student attends high school. It is the law's goal that all students achieve mathematics competency in at least Algebra II by the time they graduate. Regulations published by the State Board of Education identify mathematics courses that will satisfy the four-year requirement to include Algebra II, Pre-calculus, Discrete Mathematics, Linear Algebra, Probability and Statistics, AP Computer Science (or a computer science course that is not AP if the local school system determines that the course meets other specified requirements), and AP Calculus.

Service Learning Requirements⁵

Students must also meet service learning requirements that vary by district. To fit with Maryland's Seven Best Practices for Service Learning, a high quality service learning experience will:

- 1. Address a recognized need in the community
- 2. Achieve curricular objectives
- 3. Reflect throughout the service learning experience
- 4. Develop student responsibility
- 5. Establish community partnerships
- 6. Plan ahead for service learning
- 7. Equip students with knowledge and skills needed for civic engagement

Assessments⁶

Partnership for Assessment of Readiness for College and Careers (PARCC) Assessments

Students in grades three through eight, and in English 10 and Algebra are to be assessed using the Partnership for Assessment of Readiness for College and Careers (PARCC) assessments. The new PARCC assessments are aligned to the Maryland College and Career-Ready Standards which were developed from the Common Core and were fully implemented during the 2013-14 school year. PARCC will provide comparability across states and be able to assess and measure higher order skills such as critical thinking, communications, and problem solving. The assessments are computer-based and include a mix of constructed response items, performance-based tasks, and computer-enhanced items. Paper and pencil PARCC state assessments will be available for at least three years during the transition to online testing, and will be available for special needs beyond the transition.

⁴ Legislative Handbook

⁵ MSDE website

⁶ MSDE website

Science and Social Studies Assessments

The science Maryland School Assessment will continue to be given in grades five and eight until the Next Generation Science Assessment is developed. The Government High School Assessment will continue to be required for graduation, and the Biology High School Assessment will be replaced with the Next Generation Science Assessment when it is completed.

Alternate Maryland School Assessment/National Center and State Collaborative Assessment

The Alternate Maryland School Assessment (Alt-MSA) and the National Center and State Collaborative (NCSC) Assessment are assessments in which students with the most significant cognitive disabilities participate if the IEP process has been determined they cannot participate in the MSA/PARCC assessments even with accommodations.

In compliance with state and federal law, MSDE has used the Alt-MSA to assess reading and math in grades three through eight and 10, and science in grades five, eight, and 10. Beginning with the 2015-2016 school year, the NCSC assessment will replace the Alt-MSA for reading and math.

The NCSC alternative assessment does not currently include a science component, so Maryland will continue to use the Alt-MSA for science only.

ACCESS for LEPs

The English Language Proficiency Assessment, ACCESS for LEPs, is administered to Limited English Proficient (LEPs) in grades Kindergarten through 12 annually. The assessment measures a student's English language proficiency in the areas of listening, speaking, reading, writing, comprehension, oral, and literacy. English Language Proficiency Assessment results are used by the State and the local education systems to report information related to the English language proficiency targets, referred to in the NCLB, Title III as Annual Measurable Achievement Objective (AMAO). AMAO I measures LEP students' progress in learning English; AMAO II measures the number of students who attain English proficiency during the school year.

Accountability⁷

Waivers from the Federal Elementary and Secondary Education Act⁸

The federal No Child Left Behind Act, the most recent reauthorization of the Elementary and Secondary Education Act of 1965, requires every state to meet certain annual benchmarks. A school that fails to meet the requirements of No Child Left Behind may be subject to strict penalties for noncompliance. Due to the strict penalties of No Child Left Behind, the U.S. Department of Education offered states an opportunity to apply for waivers from certain provisions of No Child Left Behind (flexibility waivers). In order to receive a flexibility waiver, states must outline their plans to improve educational outcomes for all students, close achievement gaps, increase equity, and

⁷ Maryland Report Card website

⁸ Legislative Handbook

improve the quality of instruction. A flexibility waiver applies to 10 No Child Left Behind requirements and up to three optional requirements that a state chooses.

Maryland received a flexibility waiver which allowed the State and its local education agencies to focus on implementing the Maryland College and Career-Ready Standards; transition to the Partnership for Assessment of Readiness for College and Careers assessments; provide support, recognition, and intervention to all Maryland public schools; and develop a teacher and principal evaluation system that incorporates student growth, measured by assessments, as a major component.

Maryland's Accountability Program

Maryland's new Accountability Program is comprised of three components, (1) School Progress, (2) School Progress Index (SPI), and (3) Differentiated Recognition.

The new Maryland School Progress Index is based on high expectations and multiple measures that include student achievement data in English/Language Arts, Mathematics, and Science; growth data in English/Language Arts and Mathematics; gaps, based on the gap score between highest-achieving and lowest-achieving subgroups in mathematics, reading, science, cohort graduation and cohort dropout rates. Maryland's Progress Index will differentiate schools into one of five strands which determine the district and state support schools receive. The State affords top performing schools greater flexibility while lower-performing schools receive progressively more prescriptive technical assistance, expectations, and monitoring.

The School Progress Index evaluates schools on a continuous scale based on the variables of Achievement, Growth, Gap Reduction, and College and Career Readiness. The indicators are specific to Elementary and Middle schools or High Schools. Each indicator is comprised of specific measures for Elementary and Middle schools or High Schools. SPI is compensatory so that a low value on one indicator can be balanced by a high value on another indicator. Each of the indicators comprising the Index are differentially weighted based on their importance in assessing overall school progress.

The Annual Measurable Objectives (AMOs) for each component of the Index are based on a trajectory toward the goal, the time by which each individual school is expected to reduce its percent of students that are not proficient by half for Achievement, reduce its students not showing Growth by half, reduce the gap between the lowest and highest performing subgroups by half, and reduce the number of students that are not completing the goals for College and Career-Readiness by half.

The School Progress Index results in a Strand classification of 1 (highest) to 5 (lowest) which in turn helps identify schools for intervention, supports, and recognition of schools achieving at high levels or making exceptional progress.

Requirements for Publically-funded Prekindergarten Programs⁹

The overall goal of the prekindergarten program is to provide learning experiences to help children develop and maintain school readiness skills necessary for successful school performance.

Local boards of education shall provide prekindergarten programs to accommodate all eligible fouryear-old children seeking enrollment in public school programs. Eligible children include all fouryear-old applicants who are from families with economically disadvantaged¹⁰ backgrounds or who are homeless; if vacancies remain after compliance with this regulation, a local school system may enroll four-year-old applicants who are not from families with economically disadvantaged backgrounds but who represent a student population that exhibits a lack of school readiness. A program for three-year-old children may also be established for children that fit these same criteria. A qualified vendor will: (1) Maintain state or national early childhood program accreditation; (2) Have the capacity to meet the responsibilities identified in this regulation; (3) Be licensed to operate a childcare center: and (4) Provide responses to Department requests for information and data related to the operation of the prekindergarten program.

Further, a local school system shall: (1) Develop and maintain a policy for determining the eligibility and selection of prekindergarten sites as well as the eligibility of four-year-old students for prekindergarten programs consistent with the requirements of this chapter; (2) Develop criteria that establishes procedures to include children in the prekindergarten program who are not economically disadvantaged; (3) Operate the prekindergarten educational program 5 days per week for a minimum of 2.5-hours per day consistent with the school calendar approved by the local board; (4) Analyze the Department-approved kindergarten assessment system information to evaluate the effectiveness of the prekindergarten program, and make necessary adjustments to the prekindergarten instructional program; (5) Provide data in the Bridge to Excellence Master Plan needs assessment to indicate progress on prekindergarten program goals; (6) Provide staffing for each session of prekindergarten to include a teacher who possesses a current state professional certificate in early childhood education and a para-professional with a minimum of a high school diploma, or its equivalent, or a CDA; (7) Align each prekindergarten program with the Maryland Common Core State Curriculum; (8) Based on the September 30 enrollment count, maintain an average staff to student ratio of 1:10 with an average of 20 students per classroom; and (9) Provide responses to Department requests for information and data related to the operation of the prekindergarten program.

Education of Students with Disabilities¹¹

Federal law requires states to provide a free appropriate public education to all students with disabilities through age 21 who are found to be in need of special education services. In order to

⁹ State Board of Education via MSDE website

¹⁰ Economically disadvantaged being 185 percent of poverty

¹¹ Legislative Handbook

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meet the requirement, the education programs for disabled students must be designed to meet their individual needs and could include specially designed instruction in classrooms, at home, or in private or public settings. Examples of these services include speech, occupational, and physical therapy, psychological counseling, and medical diagnostic services that are necessary to a child's education. Teachers of students with disabilities are required to be trained in the instruction of disabled students. Services begin as soon as the child can benefit from them, regardless of whether the child is of school age.

Maryland High School Certificate¹²

This certificate is awarded to students with disabilities who do not meet the requirements for a diploma but who meet one of the following criteria:

- The student is enrolled in a special education program for at least four years beyond Grade eight, or its age equivalent. The student is determined to have developed appropriate skills for the individual to enter the world of work, act responsibly as a citizen, and enjoy a fulfilling life by an Individualized Educational Program (IEP) Team, with agreement of the student's parents/guardians. The world of work includes, but is not limited to, gainful employment, work activity centers, supported employment, or sheltered workshops.
- 2. After being enrolled in a special education program for four years beyond Grade eight, or its age equivalent, the student reached age 21.

Teacher Certification¹³

The Maryland State Department of Education oversees the certification of teachers, principals, and other school personnel and evaluates and approves higher education programs that educate and prepare teachers and other certified school personnel, in collaboration with the Professional Standards and Teacher Education Board. In order to ensure teacher quality and that students are being taught by qualified, competent teachers, the Maryland State Department of Education is also responsible for state approval and national accreditation for all professional educator certification programs in Maryland's colleges and universities.

The federal No Child Left Behind Act requires that all teachers of core academic subjects be highly qualified. Core academic subjects include English, mathematics, reading or language arts, science, foreign languages, civics and government, economics, arts, history, and geography. To be highly qualified, a teacher must have at least a bachelor's degree, hold a license to teach in the State, have obtained full state certification, and have subject matter expertise. Schools are required by federal law to annually report on the number of teachers who are not highly qualified.

¹² MSDE website

¹³ Legislative Handbook

Teacher and Principal Evaluations¹⁴

Chapter 189 of 2010, the Education Reform Act, enhanced accountability measures for teachers and principals by requiring annual performance evaluations for non-tenured certificated teachers and principals that include student growth as a significant component. The law also added a third probationary year before teachers may receive tenure.

MSDE developed a statewide Teacher and Principal Evaluation (TPE) system. The state TPE system includes equally weighted measures of professional practices and student growth. Each district is responsible for evaluating its certified teachers and principals, using either the state system or a locally developed system that has been endorsed by both the State and local education agencies' collective bargaining units.

The State Board of Education regulations require that a District's teacher and principal evaluation system meet the minimum general standards set forth in the regulations. The general standards require at least two classroom observations (for teachers), claims and evidence that substantiate observed behavior, a professional development component, a mentoring component for ineffective-rated teachers and non-tenured teachers, and a measure of student growth that is a significant factor in the overall rating and is based on multiple measures. An evaluation must have a written report that is presented to the evaluated teacher or principal, a space for written comments by the evaluated teacher or principal, and a process for appealing a final rating and report.

The student growth component should count for 50 percent of an evaluation, may not be based solely on an existing or newly created exam, and must be based on multiple measures, such as aggregate class growth scores and student learning objectives and the schoolwide performance index. However, student growth data based on or derived from state assessments may not be used to make personnel decisions until school year 2016-17.

The professional practice component should also count for 50 percent of an evaluation. For teachers, this component includes planning and preparation, classroom environment, instruction, and professional responsibility. For principals, the professional practice component should include the outcomes in the Maryland Instructional Leadership Framework, which is comprised of eight domains: (1) school vision; (2) school culture; (3) curriculum, instruction, and assessment; (4) observation/evaluation of teachers; (5) integration of appropriate assessments; (6) use of technology and data; (7) professional development; and (8) stakeholder engagement. The professional practice component also should include outcomes developed by the Interstate School Leaders and Licensure Consortium, including (1) school operations and budget; (2) effective communication; (3) influence on the school community; and (4) integrity, fairness, and ethics.

¹⁴ Legislative Handbook and MSDE

Appendix B.6: Instructions to Maryland Professional Judgment Panel Members

Augenblick, Palaich and Associates

Denver, Colorado

[Panel Date]

The work you are doing today is part of an adequacy study being conducted in Maryland on behalf of the Maryland State Department of Education. It relies on your professional experience to identify the resources needed so that all students, schools, and districts can fulfill all state standards. Below you will find a number of instructions to help you in this process. It is important to remember that you are not being tasked to build your "Dream School." Instead, you are being asked to identify the resources needed to meet the specific standards and requirements that the State expects students, schools and districts to fulfill. You should allocate resources as efficiently as possible without sacrificing quality. You are a member of a panel that is being asked to design how programs and services will be delivered in representative school settings. These panels are being used to identify the resources that schools with a particular set of demographic characteristics should have in order to meet a specific set of "input" requirements and "output" objectives.

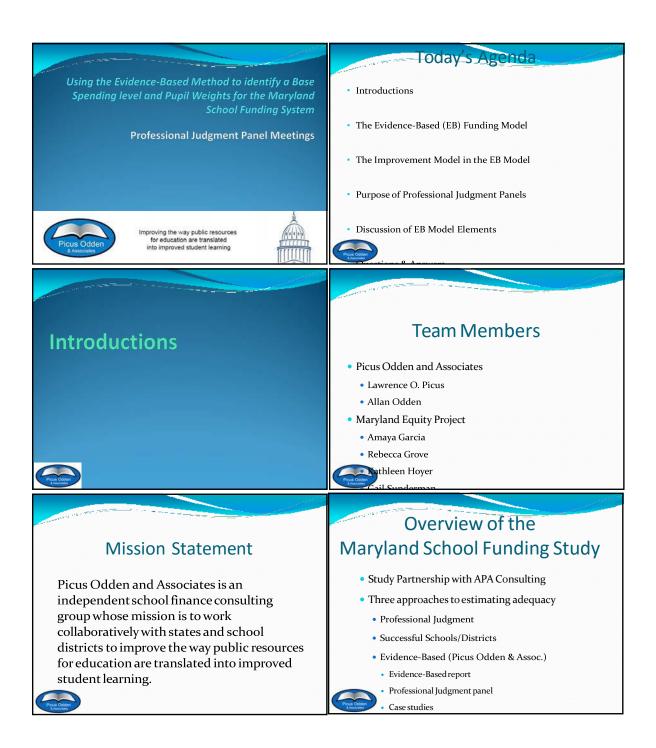
- 1. [Description of prior panels held, example language here from final statewide panel] Previously, four school-level professional judgment panels were convened to address: (1) elementary schools; (2) prekindergarten programs; (3) middle schools; and (4) high schools. Each panel discussed more than one representative school for that grade configuration of varying size, and addressed resources needed to serve all students ("base" resources) and at risk students. Two additional panels were then held to review the work of the school-level panels and address the resources needed for (1) special education students, and (2) English Language Proficient (LEP). A district-level panel was also held to review the work of all prior panels, and identify the district-level resources needed to support schools. Finally, a CFO panel was held earlier this week to specifically review non-personnel costs at the school and district level.
- 2. **[Short description of current panel, example language here from final statewide panel]** Today, you are serving on a statewide review panel to review the work of all prior panels and address any inconsistencies or outstanding issues.

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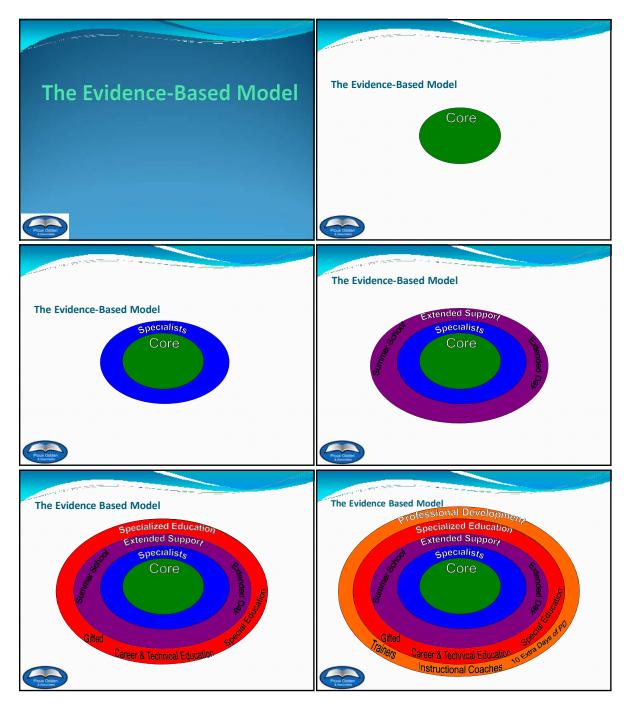
- The characteristics of each representative school(s) are identified, including: (1) grade span;
 (2) enrollment; and (3) the proportion of at risk students (based on those students eligible for free/reduced price lunch), LEP students, and special education students.
- 4. The "input" requirements and "outcome" objectives that need to be accomplished by the representative school(s) are those required by the State. These requirements or objectives can be described broadly as education opportunities, programs, services, or as levels of education performance. You will be provided a short summary of state expectations and performance standards; it is not meant to be exhaustive of all requirements that the State requires schools and districts to fulfill but instead should be considered a refresher or reminder.
- 5. In designing the representative school(s), we need you to provide some very specific information so that we can calculate the cost of the resources that are needed to fulfill the indicated requirements or objectives. The fact that we need that information should not constrain you in any way in designing the program of the representative school(s). Your job is to create a set of programs, curriculums, or services designed to serve students with particular needs in such a way that the indicated requirements/objectives can be fulfilled. Use your experience and expertise to organize personnel, supplies and materials, and technology in an efficient way you feel confident will produce the desired outcomes.
- 6. For this process, the following statements are true about the representative school(s) and the conditions in which they exist:
 - Teachers: You should assume that you can attract and retain qualified personnel and that you can employ people on a part-time basis if needed (based on tenths of a full-time equivalent person).
 - Facilities: You should assume that the representative school has sufficient space and the technology infrastructure to meet the requirements of the program you design.
 - Revenues: You should not be concerned about where revenues will come from to pay for the program you design. Do not worry about federal or state requirements that may be associated with certain types of funding. You should not think about whatever revenues might be available in the school or district in which you now work or about any of the revenue constraints that might exist on those revenues.
 - Programs: You may create new programs or services that do not presently exist that you believe address the challenges that arise in schools. You should assume that such programs or services are in place and that no additional time is

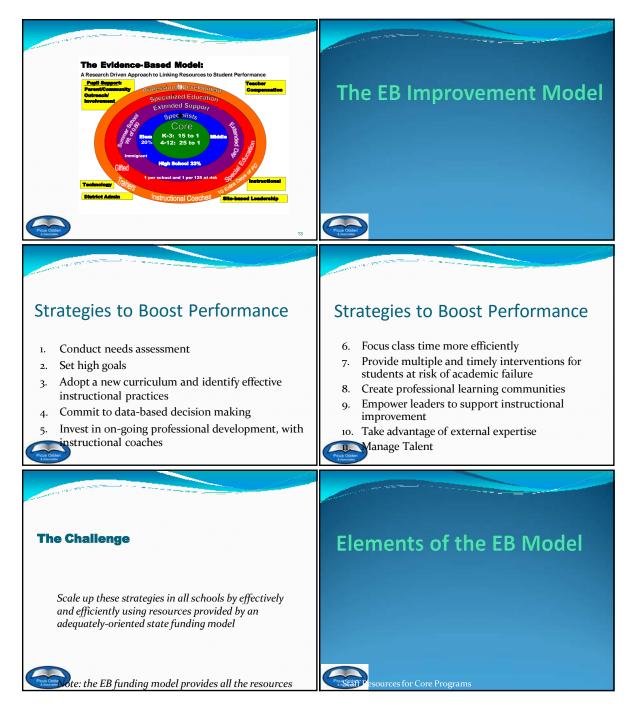
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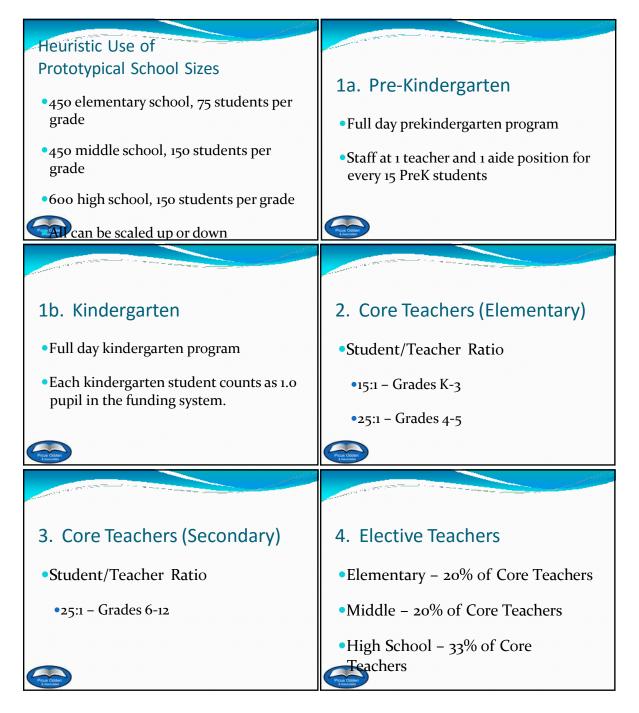
needed for them to produce the results you expect of them. For example, if you create after-school programs or prekindergarten programs to serve some students, you should assume that such programs will achieve their intended results, possibly reducing the need for other programs or services that might have otherwise been needed. **Appendix B.7:** Evidence-Based Professional Judgment Panel's Introduction to Evidence-Based Method



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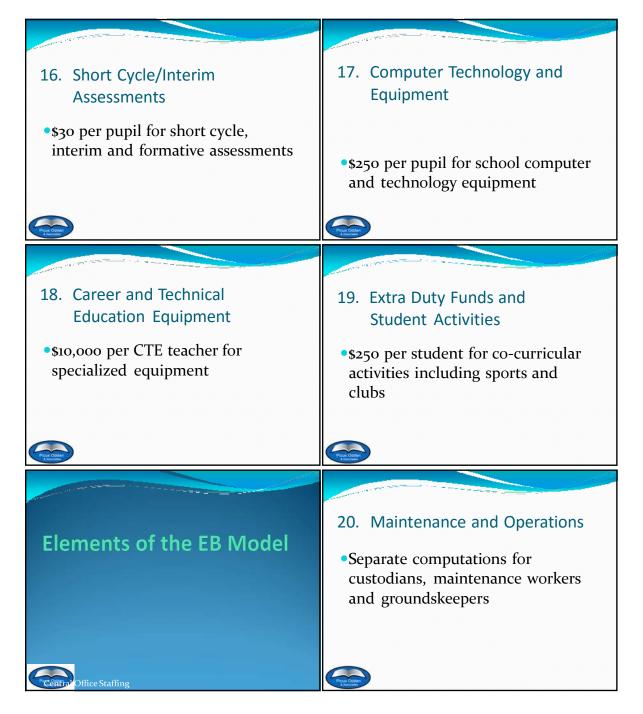


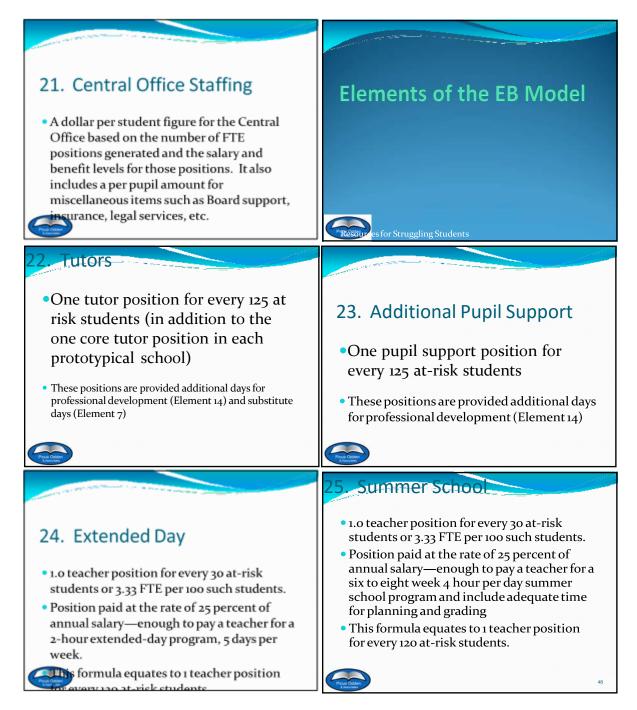


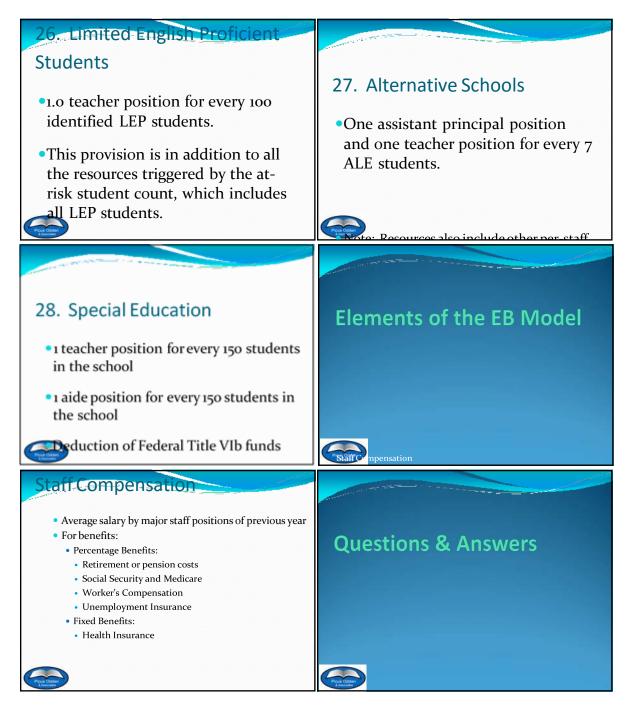


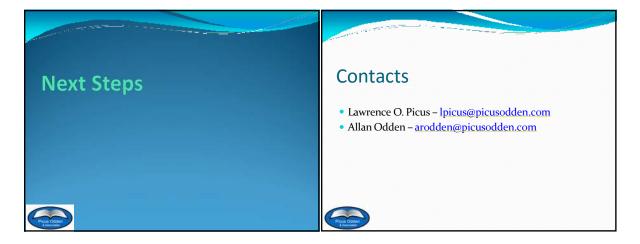
| 5. Instructional Coaches •1.0 FTE Instructional Coach position for every 200 students | 6. Core TutorsOne tutor position for each prototypical school | | | | | |
|--|--|--|--|--|--|--|
| File Clare | • Note: Additional tutors are provided through the attrisk pupil count in element 22 | | | | | |
| 7. Substitute Teachers • 5 % of core and elective teachers, instructional coaches, tutors (and teacher positions in additional tutoring, extended day, summer school and LEP) | 8. Core Guidance Counselors and Nurses 1 guidance counselor for every 450 K-5 students 1 guidance counselor for every 250 6-12 students 1 nurse for every 750 K-12 students | | | | | |
| | | | | | | |
| 9. Supervisory Aides 2 for each prototypical 450-student elementary and middle school 3 for each prototypical 600-student high school | 10. Librarians •1.0 librarian position for each prototypical school | | | | | |
| | Partoan | | | | | |











Appendix B.8: Ingredient Prices for Professional Judgment and Evidence-Based Models

Table B.5

2014-15 Average Salary by Position (Evidence Based)

| Position | Average Salary |
|--------------------------------|----------------|
| School | |
| Principal | \$118,906 |
| Assistant Principal | \$100,948 |
| Teacher | \$65,440 |
| Instructional Coach | \$81,131 |
| Substitute Teacher | \$65,440 |
| Guidance Counselor | \$72,415 |
| Nurse | \$56,842 |
| Instructional/Supervisory Aide | \$29,435 |
| Library-Media Specialist | \$72,904 |
| School Secretary/Clerical | \$43,943 |
| Maintenance and Operations | |
| Custodian | \$42,607 |
| Maintenance Worker | \$56,303 |
| Grounds Maintenance | \$42,607 |
| Central Office | |
| Superintendent | \$199,670 |
| Business Manager | \$125,820 |
| Director Personnel/HR | \$125,820 |
| Asst. Supt. of Instruction | \$156,314 |
| Director of Pupil Services | \$125,820 |
| Director of Assessment | \$125,820 |
| Director of Technology | \$125,820 |
| Director of O&M | \$125,820 |
| Secretary/Clerical | \$43,943 |
| Network/Systems Supervisor | \$75,000 |
| School Computer Technician | \$45,000 |
| Speech Pathologist | \$74,608 |
| Psychologist | \$86,404 |

| Table B.6 |
|--|
| 2014-15 Average Salary by Position (Professional Judgment) |

| School Level | |
|---|-----------|
| Position Title | Salary |
| Instructional Staff | |
| Teachers | \$65,440 |
| Instructional Facilitator (Coach) | \$65,440 |
| Teacher Tutor/ Interventionist | \$65,440 |
| Librarians/Media Specialists | \$72,904 |
| Media Aide | \$32,677 |
| Technology Specialists | \$72,904 |
| Instructional Aides | \$29,435 |
| LEP Staff | |
| LEP Coordinator | \$65,440 |
| Special Education Staff | |
| Speech Pathologist | \$74,608 |
| OT/PT Therapists | \$79,367 |
| IEP Coordinator | \$65,440 |
| Pupil Support Staff | |
| Counselors | \$72,415 |
| Nurses | \$56,842 |
| Health Aide | \$27,783 |
| Psychologists | \$86,404 |
| Social Worker | \$80,815 |
| Student/Pupil Support Worker | \$95,564 |
| Behavior Specialists | \$75,836 |
| Family Liaison | \$43,943 |
| Alternative/In School Suspension (Para) | \$29,435 |
| Transition Coordinator | \$65,440 |
| Job Coaches (Para) | \$29,435 |
| Administrative Staff | |
| Principal | \$118,906 |
| Assistant Principal | \$100,948 |
| Dean | \$87,644 |
| Athletic/Activities Director | \$87,644 |
| Bookkeeper | \$43,943 |
| Clerical/Data Entry | \$43,943 |
| Other Staff | |
| IT Technician | \$53,667 |
| Substitute | \$65,440 |
| Coordinator | \$65,440 |

| District Level | |
|------------------------------------|-----------|
| Position Title | Salary |
| Superintendent | \$199,670 |
| Assistant/Associate Superintendent | \$156,314 |
| Executive Director | \$125,820 |
| Director | \$125,820 |
| Supervisor | \$105,039 |
| Coordinator | \$105,371 |
| Manager | \$105,371 |
| Secretary/Clerk | \$43,943 |
| IT Technician | \$53,667 |
| Nurse | \$56,842 |
| Specialist | \$75,836 |
| Other Professional | \$75,836 |
| Attorney (Systems and Board) | \$125,820 |
| Database Admin/Programmer | \$53,667 |
| Therapist/Specialist | \$70,551 |
| Interpreter/Translator | \$43,943 |

Table B.7

2014-15 Employee Benefit Costs (Evidence-Based and Professional Judgment)

| Employee Benefit | Rate |
|-----------------------------------|-----------------------------|
| | 6.20% |
| Social Security | (Up to \$118,500 of salary) |
| Medicare Insurance | 1.45% |
| State Retirement (Certified) | 4.560% |
| State Retirement (Classified) | 8.170% |
| Workers Compensation (Certified) | 0.550% |
| Workers Compensation (Classified) | 2.18% |
| Unemployment Insurance | 2.8% |
| Medical Insurance | \$8,537 |

Table B.8

2014-15 Technology Prices (Professional Judgment)

| | Cost per Unit | Replacement Cycle | Annual Price | |
|----------------------------|------------------|----------------------|-----------------|--|
| Administration/Main Office | | | | |
| Computers | \$826 | 4 | \$207 | |
| Laptops | \$1,124 | 4 | \$281 | |
| Mobile Device | \$528 | 4 | \$132 | |
| Printers | \$299 | 4 | \$75 | |
| Copier | \$625 | 4 | \$156 | |
| Faculty | | | | |
| Computers | \$831 | 4 | \$208 | |
| Laptops | \$1,124 | 4 | \$281 | |
| Mobile Device | \$528 | 4 | \$132 | |
| Classroom | | | | |
| Computers | \$826 | 4 | \$207 | |
| Printers | \$299 | 4 | \$75 | |
| Visual Presentation System | \$1,948 | 4 | \$487 | |
| Document Camera | \$450 | 4 | \$113 | |
| Wireless Access Point | \$560 | 4 | \$140 | |
| Computer Lab(s)-Fixed | | | | |
| Computers | \$826 | 4 | \$207 | |
| Printers | \$299 | 4 | \$75 | |
| Visual-Presentation System | \$1,948 | 4 | \$487 | |
| Computer Lab(s)-Mobile | | | | |
| Laptops | \$840 | 4 | \$210 | |
| Media Center | | | | |
| Computers | \$820 | 4 | \$205 | |
| Printers | \$299 | 4 | \$75 | |
| Other | | | | |
| Student Devices | \$429 | 4 | \$107 | |
| Headphones | \$19 | 4 | \$5 | |
| Protective Cases | \$25 | 4 | \$6 | |
| LCD TV (Digital Signage) | \$843 | 4 | \$211 | |

Appendix C

Successful Schools Materials

Appendix C.1: Study of Adequacy of Funding for Education in Maryland Instructions for School Expenditure Data Collection Tool

OVERVIEW:

We are asking you to complete the accompanying Data Collection Tool(s) as part of the adequacy study APA Consulting is conducting for the Maryland State Department of Education. This study was required by the Bridge to Excellence in Public Schools Act, which enacted the recommendations of the Thornton Commission, to make recommendations for updating t h e state's school finance formula. The results of this and two other approaches to estimating the cost of an adequate education will be used to recommend a new base per pupil funding amount and weights for students with special needs in fall 2016.

The purpose of this survey is to collect the amount of money the selected school spends to provide its basic education program, that is, the general education program provided for all students enrolled in the school. This amount should exclude spending for supplemental programs and services for students who are at risk, Limited English Proficient students, or have an Individualized Education Program (IEP) through the special education program. This spending information will be used to help estimate a new per-pupil basic foundation amount.

Please complete a Data Collection Tool workbook for each school from your district selected for the successful schools study. Please note that if you are completing more than one Data Collection Tool (e.g. two or more schools from your district were selected for the study), you are only required to complete the district-level sections in the General Information and District Administration tabs once. If you do not see a cell for entering a school expenditure related to the school's general education program, please describe the expenditure and enter the amount in either the Notes or Questions box found at the bottom of each program area tab or the Comments tab.

The following applies to all data you will enter in the Data Collection Tool:

- All data should be for the 2014-15 school year
- All student and staff information should be as of September 30, 2014
- Please report actual expenditures for 2014-15, not budgeted
- Do not include any expenditures for Category 206 special education
- Please list the source for all information provided (E.g. budget, district/state data reporting system, required state or federal reports, etc.)

Please read the instructions carefully as you complete the Data Collection Tool. If you have any questions please contact:

Mark Fermanich APA Consulting <u>mlf@apaconsulting.net</u> 720-227-0101

Thank you for your help!

GENERAL INFORMATION (INFO) TAB:

We will begin by asking for information about the selected school (the name of the school is part of the Microsoft Excel workbook file name).

All Student Counts should be taken from your September 30th, 2014 enrollment count. Staff information should also be based on staff working in the school and district as of September 30th, 2014.

- In cell C5, please use the drop-down menu to enter the lowest grade served by the school (for example, PK).
- In cell E5, please use the drop-down menu to enter the highest grade served by the school (for example, grade six).

If the drop-down menus are not compatible with your version of Microsoft Excel, please simply enter the lowest grade served in cell C5 and the highest grade served in cell E5.

- In cell B8, please enter the total number of FTE students enrolled in grades one through 12. We understand that most schools will not have this full grade span. We are requesting the count only of those students not in kindergarten or prekindergarten served by the school.
- In cell B9, please enter the total number of enrolled FTE full-day kindergarten students if any.
- In cell B10, please enter the total number of enrolled FTE half-day prekindergarten students if any.
- In cell B11, please enter the total number of enrolled FTE full-day prekindergarten students if any.

For the questions requesting information about teachers (cells B15, B17, B33, and B35), please include classroom, specialist (music, art, physical education, foreign language, etc.), Title I, special education, English language learner, long-term substitutes, and other certified staff with direct instructional responsibilities. Do not include other professional student support staff without instructional responsibilities such as media/librarians, guidance counselors, social workers, nurses, therapists, psychologists, etc.

- In cell B15, please enter the average years of experience of all teachers working in the identified school. When calculating the school's average years of experience, please enter the teachers' total teaching experience, not their years of experience working in this school or district.
- In cell B17, please enter the percent of teachers in the identified school who hold an APC or National Board of Professional Teaching Standards certification.

In the next section we request information about your entire district. *If more than one school has been identified in your district and you have already provided this information you may skip this section.*

- In cell B22, please enter the total number of enrolled FTE half-day prekindergarten students if any.
- In cell B23, please enter the total number of enrolled FTE full-day prekindergarten students if any.
- In cell B24, please enter the total number of enrolled FTE full-day kindergarten students if any.
- In cell B25, please enter the total number of enrolled FTE elementary students in the district.
- In cell B26, please enter the total number of enrolled FTE middle school or junior high students in the district.
- In cell B27, please enter the total number of enrolled FTE high school students in the district.
- In cell B29, please enter the district's total operating expenditures for 2014-2015, this would include both restricted and unrestricted funds.

This amount should consist of actual 2014-15 expenditures reported in the Current Expense fund *excluding* any expenditures for transportation, food service, adult education, district payments for retiree benefits, and non-Current Expense Fund capital expenditures. (The amount should include capital expenditures from the Current Expense Fund).

> In cell B33, please enter the average years of experience for all teachers in the district.

Please follow the instructions for calculating the average years of experience for all teachers in the school listed above.

In cell B35, please enter the percent of teachers in the district who hold an APC or National Board of Professional Teaching Standards certification.

DISTRICT ADMINISTRATION TAB:

If more than one school has been identified in your district and you have already provided this information you may skip this section.

All FTE and Personnel Costs data should be for staff working in the district as of September 30, 2014.

The first section addresses expenditures for General Support Services, identified in the Maryland *Financial Reporting Manual* with category code 20121. Please enter the full district cost for each area.

- In cell B9, please enter the total amount expended for salaries and wages for General Support Services.
- In cell C9, please enter the amount of employee fringe benefits reported in Fixed Charges (Category 212) that correspond to the salaries identified in cell B9, the salaries and wages for General Support Services. Fringe benefits should include the employer's share of FICA; Medicare; premiums for health insurance, life insurance, short- and/or long-term disability insurance, and workers' compensation insurance; and any other employee-related Fixed Charges. When reporting the employer's share of retirement contributions, please use 100 percent of the normal cost contributions for fiscal year 2017, assuming the teacher pension cost sharing as specified in the Budget Reconciliation Act of 2012 is fully phased in. The total for fringe benefits may be shown as an amount or as a percentage of total Salaries and Wages. Do not include any payments for retiree benefits.
- Cell D9 shows the total amount expended for salaries and wages and fringe benefits for General Support Services. Please enter this amount if the total does not calculate automatically.

The next section addresses expenditures for Business Support Services, identified in the Maryland Financial

Reporting Manual with category code 20122.

- In cell B15, please enter the total amount expended for salaries and wages for Business Support Services.
- In cell C15, please enter the amount of employee fringe benefits reported in Fixed Charges (Category 212) that correspond to the salaries identified in cell B15, the salaries and wages for Business Support Services. Please see the instructions provided above for cell C9 for directions on how to calculate total fringe benefits.
- Cell D15 shows the total amount expended for salaries and wages and fringe benefits for Business Support Services. Please enter this amount if the total does not calculate automatically.

The next section addresses expenditures for Centralized Support Services, identified in the Maryland *Financial Reporting Manual* with category code 20123.

- In cell B21, please enter the total amount expended for salaries and wages for Centralized Support Services.
- > In cell C21, please enter the amount of employee fringe benefits reported in Fixed Charges

(Category 212) that correspond to the salaries identified in cell B21, the salaries and wages for Centralized Support Services. Please see the instructions provided above for Cell C9 for directions on how to calculate total fringe benefits.

Cell D21 shows the total amount expended for salaries and wages and fringe benefits for Centralized Support Services. Please enter this amount if the total does not calculate automatically.

The final section addresses costs associated with Instructional Administration and Supervision, identified in the Maryland *Financial Reporting Manual* with category code 20216. *Do not include any FTEs or expenditures for Instructional Administration and Supervision for special education programs (20616)*.

Please see the instructions provided above for Cell C9 for directions on how to calculate total fringe benefits for cells B29 through F29.

- In cells B27, C27, D27, E27, and F27, please enter the total Full Time Equivalent (FTE) of people working in each designated area under Instructional Administration and Supervision. For example, a person working full-time is 1.0 FTE. A person working 40 percent of the time is .4 FTE.
- In cells B28, C28, D28, E28, and F28, please enter the district's total expenditure for salaries and wages for each personnel category for Instructional Administration and Supervision. This amount should not include any expenditure for employee fringe benefits (employeerelated Fixed Charges).
- In cells B29, C29, D29, E29, and F29, please enter the district's total expenditure for employee fringe benefits for each personnel category for Instructional Administration and Supervision. This amount comes from Fixed Charges (Category 212). Please see the instructions provided above for Cell C9 for directions on how to calculate total fringe benefits. Expenditures reported here should exclude employee fringe benefits.
- In cells B30, C30, D30, E30, and F30, please enter the total FTE of people in each personnel category that work exclusively with Limited English Proficient (LEP) students or administration of LEP programs, or their portion of time spent exclusively in this area related to Instructional Administration and Supervision. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time with the LEP program.
- In cells B31, C31, D31, E31, and F31, please enter the total FTE of people in each personnel category that work exclusively with at risk students or administration of at risk programs, or their portion of time spent exclusively in this area related to Instructional Administration and Supervision. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time working with at risk programs.

By staff working with at risk students we mean staff who are funded through Title I or the State's Compensatory Education formula who provide supplemental services to students who are low-income, at risk of academic failure, or who have a record of disruptive behavior.

When entering teacher and other staff FTE, salary and wage expenditures, and fringe benefit expenditures for staff working with at risk students, if any of these staff are funded through Title I,

include only the Title I staff FTE and salary and benefit expenditures exceeding the school's federal comparability levels.

- In cell B37, please enter the total amount spent for Contractual Services (200) for programs 20121, 20122, 20123, and 20216.
- In cell C37, please enter the total amount spent for Supplies and Materials (300) for programs 20121, 20122, 20123, and 20216.
- In cell D37, please enter the total amount spent for Other Charges (400) for programs 20121, 20122, 20123, and 20216. Expenditures reported here should exclude employee fringe benefits.
- In cell E37, please enter the total amount spent for Equipment and Technology (554) for programs 20121, 20122, 20123, and 20216. Expenditures for Equipment and Technology should only include expenditures from the Current Expense Fund.

SCHOOL (MID-LEVEL) ADMINISTRATION TAB:

The questions in this tab only apply to expenditures for the Office of the Principal. Expenditures associated with this area are identified with category code 20215 in the Maryland *Financial Reporting Manual*. Do not include any FTEs or expenditures of School Administration related to special education programs (Category 206).

All FTE and Personnel Costs data should be for staff working in the school as of September 30, 2014. Please include as school expenditures, if possible, the proportional share of the cost of central office controlled school administration resources that are regularly assigned to this school. For example, if there is an administrator whose salary costs are assigned to the central office but who spends 25 percent of her time performing administrative tasks directly for the school (for example, an assessment coordinator who is assigned to multiple schools), include this person as a .25 FTE in the school.

In cells B7 through I7, please enter the total FTE of people working in each designated position under the Office of the Principal. For example, a person working full-time is 1.0 FTE. A person working 40 percent of the time is .4 FTE.

If the school's principal is also assigned teaching responsibilities for part of the day on an ongoing basis please allocate his or her FTE, salary and wage expenditure, and fringe benefits expenditure between the Principal position on the School Administration tab and the appropriate position category on the School Instruction tab.

- In cells B8 through I8, please enter the school's total expenditure for salaries and wages for each personnel category for the Office of the Principal. This amount should not include any expenditure for employee fringe benefits.
- In cells B9 through I9, please enter the school's total expenditure for employee benefits for each personnel category for the Office of the Principal. This amount comes from Fixed Charges (Category 212).

Fringe benefits should include the employer's share of FICA; Medicare; premiums for health insurance, life insurance, short- and/or long-term disability insurance, and workers' compensation insurance; and any other employee-related Fixed Charges. When reporting the employer's share of retirement contributions, please use 100 percent of the normal cost contributions for fiscal year

2017, assuming the teacher pension cost sharing as specified in the Budget Reconciliation Act of 2012 is fully phased in. The total for fringe benefits may be shown as an amount or as a percentage of total Salaries and Wages. Do not include any payments for retiree benefits.

- In cells B10 through I10 please enter the total FTE of people for each personnel category that work exclusively with Limited English Proficient (LEP) students or administration of LEP programs, or the portion of time spent exclusively in this area under the Office of the Principal. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time with the LEP program.
- In cells B11 through I11, please enter the total FTE of people in each personnel category that work exclusively with at risk Students or administration of at risk programs, or the portion of time spent exclusively in this area under the Office of the Principal. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time working with at risk programs.

By staff working with at risk students we mean staff who are funded through Title I or the State's Compensatory Education formula who provide supplemental services to students who are low-income, at risk of academic failure, or have a record of disruptive behavior.

When entering teacher and other staff FTE, salary and wage expenditures, and fringe benefit expenditures for staff working with at risk Students, if any of these staff are funded through Title I, include only the Title I staff FTE and salary and benefit expenditures exceeding the school's federal comparability levels.

- In cell B17, please enter the total amount spent for Contractual Services (200) for the Office of the Principal.
- In cell C17, please enter the total amount spent for Supplies and Materials (300) for the Office of the Principal.
- In cell D17, please enter the total amount spent for Other Charges (400) for the Office of the Principal. Expenditures reported here should exclude employee fringe benefits.
- In cell E17, please enter the total amount spent for Equipment and Technology (554) for the Office of the Principal. Expenditures for Equipment and Technology should only include expenditures from the Current Expense Fund.

SCHOOL INSTRUCTION TAB:

TO AVOID DOUBLE COUNTING ANY FUNDS; PLEASE MAKE SURE THE COSTS REPORTED HERE ARE UNIQUE TO THIS SECTION.

The first section addresses Instructional Salaries, identified in the Maryland *Financial Reporting Manual* as Category 203. We want to build this cost by personnel type so we can exclude those who work identifiable amounts of time with Limited English Proficient or at risk students. *Do not include any FTEs or expenditures of School Instruction related to special education programs (Category 206).*

All FTE and Personnel Costs data should be for staff working in the school as of September 30, 2014.

Please include as school expenditures, if possible, the proportional share of the cost of central office controlled school instruction resources that are regularly assigned to this school. For example, if textbook purchases are assigned to the central office but you can identify the cost of textbooks purchased for this school in 2014-15, please report this expenditure as a school cost.

- In cells B6 through M6, please enter the total FTE of people working in each personnel category under Instructional Salaries. For example, a person working full-time is 1.0 FTE. A person working 40 percent of the time is .4 FTE.
- In cells B7 through M7, please enter the school's total expenditure for salaries and wages for each personnel category for Instructional Salaries. This amount should not include any expenditure for employee fringe benefits.
- In cells B8 through M8, please enter the school's total expenditure for employee fringe benefits for each personnel category for Instructional Salaries. This amount comes from Fixed Charges (Category 212).

Fringe benefits should include the employer's share of FICA; Medicare; premiums for health insurance, life insurance, short- and/or long-term disability insurance, and workers' compensation insurance; and any other employee-related Fixed Charges. When reporting the employer's share of retirement contributions, please use 100 percent of the normal cost contributions for fiscal year 2017, assuming the teacher pension cost sharing as specified in the Budget Reconciliation Act of 2012 is fully phased in. The total for fringe benefits may be shown as an amount or as a percentage of total Salaries and Wages. Do not include any payments for retiree benefits.

- In cells B9 through M9, please enter the total FTE of people in the school in each designated area that work exclusively with Limited English Proficient (LEP) students or the portion of time spent exclusively in this area under Instructional Salaries. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time working with the LEP program.
- In cells B10 through M10 please enter the total FTE of people in the school in each designated area that work exclusively with at risk students or the portion of time spent exclusively in this area under Instructional Salaries. For example, if reporting partial time for a person enter .4 for someone who spends 40 percent of their time working with at risk programs.

By staff working with at risk students, we mean staff who are funded through Title I or the State's Compensatory Education formula who provide supplemental services to students who are low-income, at risk of academic failure, or have a record of disruptive behavior.

When entering teacher and other staff FTE, salary and wage expenditures, and fringe benefit expenditures for staff working with at risk students, if any of these staff are funded through Title I include only the Title I staff FTE and salary and benefit expenditures exceeding the school's federal comparability levels.

In cell B16 please enter the school's total expenditure for stipends to employees working extracurricular or cocurricular activities for Instructional Salaries.

By extracurricular or cocurricular activities we mean school-sponsored activities under the guidance of qualified adults designed to provide opportunities for students to participate on an individual basis, in small groups, or in large groups at school events, public events, or a combination of these for purposes such as motivation, enjoyment, and improvement of skills. Cocurricular activities normally supplement the regular instructional program and include such activities as band, chorus, choir, speech, debate, and school-sponsored athletics. Participation usually is not required, and credit is not given (*Financial Reporting Manual for Maryland Public Schools*, 2009).

In cell C16, please enter the school's total expenditure for substitutes for Instructional Salaries.

The next section addresses the costs associated with Instructional Textbooks/Supplies, identified in the Maryland *Financial Reporting Manual* as Category 204.

In cell B22, please enter the amount attributable to the specific school if identifiable if not, please enter the district's total expenditure for Category 204 in cell B24. Only enter a districtwide amount if you are not able to break out an amount for the school.

The final section addresses all Other Instructional Costs, identified in the Maryland Financial Reporting Manual as Category 205. Please include any expenditures from the Current Expenses Fund for instructional equipment or technology (Object 554, Other Equipment) here.

In cell B29 please enter the amount attributable to the specific school if identifiable; if not, please enter the district's total expenditure for Category 205 in cell B31.

OTHER SCHOOL COSTS TAB:

The questions in this tab address all other operating costs of the school or district excluding food service (Category 213), transportation (Category 209), adult education (Category 20512), and special education (Category 206).

Please include as school expenditures, if possible, the proportional share of the cost of central office controlled resources that are regularly assigned to this school. For example, if there is a staff person whose salary costs are assigned to the central office but who spends 25 percent of her time performing tasks directly for the school, include this person as a .25 FTE in the school.

In cell B6, please enter the total expenditure for salary and wage attributable to the specific school for Student Personnel Services, Category 207, if identifiable. If not, please enter the district's total expenditure for Category 207 in cell B19. Only enter a districtwide amount if you are not able to break out an amount for the school.

In cell B7, please enter the total expenditure for employee fringe benefits attributable to the salary and wage amount entered in cell B6 for the specific school for Student Personnel Services, Category 207, if identifiable. If not, please enter the district's total expenditure for Category 207 in cell B20. Only enter a districtwide amount if you are not able to break out an amount for the school.

Fringe benefits should include the employer's share of FICA; Medicare; premiums for health insurance, life insurance, short- and/or long-term disability insurance, and workers' compensation insurance; and any other employee-related Fixed Charges. When reporting the employer's share of retirement contributions, please use 100 percent of the normal cost contributions for fiscal year 2017, assuming the teacher pension cost sharing as specified in the Budget Reconciliation Act of 2012 is fully phased in. The total for fringe benefits may be shown as an amount or as a percentage of total Salaries and Wages. Do not include any payments for retiree benefits.

- In cell C6, please enter the total expenditure for salary and wage attributable to the specific school for Student Health Services, Category 208, if identifiable. If not, please enter the district's total expenditure for Category 208 in cell C19. If there are outside sources that provide services for this area, please enter the total amount they provide under Contractual Services in cell B11. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell C7, please enter the total expenditure for employee fringe benefits attributable to the salary and wage amount entered in cell C6 for the specific school for Student Health Services, Category 208, if identifiable. If not, please enter the district's total expenditure for Category 208 in cell C20. Please see the instructions provided above for Cell B7 for directions on how to calculate total fringe benefits. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell D6, please enter the total expenditure for salary and wage attributable to the specific school for Operation of Plant, Category 210, if identifiable. If not, please enter the district's total expenditure for Category 210 in cell D19. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell D7, please enter the total expenditure for employee fringe benefits attributable to the salary and wage amount entered in cell D6 for the specific school for Operation of Plant, Category 210, if identifiable. If not, please enter the district's total expenditure for Category 210 in cell D20. Please see the instructions provided above for Cell B7 for directions on how to calculate total fringe benefits. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell E6, please enter the total expenditure for salary and wage attributable to the specific school for Maintenance of Plant, Category 211, if identifiable. If not, please enter the district's total expenditure for Category 211 in cell E19. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell E7, please enter the total expenditure for employee fringe benefits attributable to the salary and wage amount entered in cell E6 for the specific school for Maintenance of Plant, Category 211, if identifiable. If not, please enter the district's total expenditure for Category 211 in cell E20. Please see the instructions provided above for Cell B7 for directions on how to calculate total fringe benefits. Only enter a districtwide amount if you are not able to break out

an amount for the school.

- In cell F6, please enter the total expenditure for salary and wage attributable to the specific school for Community Services, Category 214, if identifiable. If not, please enter the district's total expenditure for Category 214 in cell F19. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell F7, please enter the total expenditure for employee fringe benefits attributable to the salary and wage amount entered in cell F6 for the specific school for Community Services, Category 214, if identifiable. If not, please enter the district's total expenditure for Category 214 in cell F20. Please see the instructions provided above for Cell B7 for directions on how to calculate total fringe benefits. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell B11, please enter the total amount for Contractual Services (Object 200) attributable to the specific school in Categories 207, 208, 210, 211, and 214, if identifiable. If not, please enter the district's total expenditures for Object 200 in these Categories in cell B24. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell C11, please enter the total amount for Supplies and Materials (Object 300) attributable to the specific school in Categories 207, 208, 210, 211, and 214, if identifiable. If not, please enter the district's total expenditures for Object 300 in these Categories in cell C24. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell D11, please enter the total amount for Fixed Charges (Category 212) or Other Charges (Object 400 for Categories 207, 208, 210, 211, and 214) from the Current Expense Fund that have not already been entered elsewhere in the Expenditure Tool and are attributable to the specific school. This amount should not include any expenditures related to personnel costs, such as employee fringe benefits. If an amount for this specific school cannot be determined, please enter the district's total expenditures for Fixed Charges (Category 212) or Other Charges (Object 400 for Categories 207, 208, 210, 211, and 214) in cell D24. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell E11, please enter the total amount for Equipment/Technology (Object 554) from the Current Expense Fund attributable to the specific school in Categories 207, 208, 210, 211, and 214, if identifiable. If not, please enter the district's total expenditures for Object 554 in these Categories in cell E24. Only enter a districtwide amount if you are not able to break out an amount for the school.
- In cell F11, please enter any other expenditures from the Current Expense Fund that have not already been entered elsewhere in the Expenditure Tool and are attributable to the specific school if identifiable. If not, please enter the district's total amount for these expenditures in cell F24. Please note what these expenditures were for in the Notes or Questions not box at the bottom of the page. Only enter a districtwide amount if you are not able to break out an amount for the school.

THANK YOU FOR YOUR TIME!

Appendix C.2: Successful Schools Data-Collection Tool Tabs

| School Information: (The question | ions in rows 5 - 17 refer to the identified school) |
|---|---|
| | Lowest Grade Highest Grade |
| Grade Span | - In cells C5 and E5 please select the lowest (C5) and highest (E5) grades served by the identified s |
| | |
| Number of Students (FTE): | All Student counts should be from the September 30 th , 2014 enrollment count. |
| - Grades 1-12 | - In cell B8 please enter the total number of students enrolled in grades 1-12. |
| - Full-day kindergarten | - In cell B9 please enter the total number of enrolled full-day kindergarten students if any. |
| - Half-day prekindergarten | In cell B10 please enter the total number of enrolled half-day prekindergarten students if any. In cell B11 please enter the total number of enrolled full-day prekindergarten students if any. |
| | - In cell bit please enter the total number of enforced funday prekindergaten students in any. |
| Teacher Characteristics: Please se | e see instructions for guidance on teachers to include here and throughout the report. Use teacher staffing counts as of September 30, 2014 |
| | |
| Average Years of Experience of | |
| All Teachers | - In cell B15 please enter the average experience of all teachers working in the identified school. |
| | |
| % of Teachers with Advanced | |
| Professional Certificate (APC) or | - In cell B17 please enter the percent of all teachers working in the identified school who hold an APC or NBPTS certification. |
| National Board of Professional | - In cell bit please enter the percent of an teachers working in the identified school who hold an APC of INDETS certification. |
| Teaching Standards Certification | |
| | |
| District Info: (If your | our district has more than one school identified and you have already provided this information, please skip this sect |
| | |
| Number of Students (FTE): | All Student counts should be from the September 30 th , 2014 enrollment counts. |
| - Half-day prekindergarten | - In cell B22 please enter the total number of enrolled half-day prekindergarten students if any. |
| - Full-day prekindergarten | - In cell B23 please enter the total number of enrolled full-day prekindergarten students if any. |
| - Full-day kindergarten | - In cell B24 please enter the total number of enrolled full-day kindergarten students if any. |
| - Elementary | - In cell B25 please enter the total number of enrolled elementary students in the district. |
| - Middle/Junior | - In cell B26 please enter the total number of enrolled middle school students in the district |
| - High School | - In cell B27 please enter the total number of enrolled high school students in the district. |
| | - In cell B29 please enter the district's total operating expenditures for 2014-2015. |
| | - In cell b29 please enter the district's total operating expenditures for 2014-2013. |
| Operating Expenditures: | |
| | s conjectivities for quidance on teachers to include here and throughout the report. Use teacher staffing counts as of September 20, 2014 |
| Operating Expenditures: Teacher Characteristics: Please set | e see instructions for guidance on teachers to include here and throughout the report. Use teacher staffing counts as of September 30, 2014 |
| Teacher Characteristics: Please se | |
| Teacher Characteristics: Please se Average Years of Experience of | e see instructions for guidance on teachers to include here and throughout the report. Use teacher staffing counts as of September 30, 2014 - In cell B33 please enter the average years experience for all teachers in the district. |
| Teacher Characteristics: Please se Average Years of Experience of | |
| Teacher Characteristics: Please se Average Years of Experience of All Teachers | |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Please set | - In cell B33 please enter the average years experience for all teachers in the district. |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Professional Certificate (APC) or | |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Professional Certificate (APC) or National Board of Professional Professional | - In cell B33 please enter the average years experience for all teachers in the district. |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Professional Certificate (APC) or National Board of Professional Professional | - In cell B33 please enter the average years experience for all teachers in the district. |
| | - In cell B33 please enter the average years experience for all teachers in the district. |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Professional Certificate (APC) or National Board of Professional Professional | - In cell B33 please enter the average years experience for all teachers in the district. |
| Teacher Characteristics: Please set Average Years of Experience of All Teachers % of Teachers with Advanced Professional Certificate (APC) or National Board of Professional Professional | - In cell B33 please enter the average years experience for all teachers in the district. |

| STRICT ADMINISTRATION PAGE (Data should be entered | | | | | |
|--|---------------------------|---|---------------------------------|---|-----------------------|
| e number of FTE and Personnel Costs should be based | on staff working in th | e district as of Sep | tember 30, 2014. | | |
| your district has more than one identified school and y | ou have already prov | ided this informatio | on, please skip this se | ction.) | |
| eneral Support Services (20121) | | | | | |
| | | | | | |
| | Salaries and Wages 100 | Fringe Benefits (Fixed Charges) | Total | | |
| tal Personnel Costs | | | \$0 | | |
| usiness Support Services (20122) | | | | | |
| | | | | | |
| | Salaries and Wages 100 | Fringe Benefits (Fixed Charges) | Total | | |
| tal Personnel Costs | | | \$0 | | |
| entralized Support Services (20123) | | | | | |
| | | | | | |
| | Salaries and Wages 100 | Fringe Benefits (Fixed Charges) | Total | | |
| tal Personnel Costs | | | \$0 | | |
| structional Administration and Supervision (20216) | | | | | |
| structional Administration and Supervision (20216) | Curriculum Specialist | Supervisors of Guidance & Psychological Services | Media/ Technology Specialist | Other Administrators/ Supervisors of Instruction | Clerical Staff in Are |
| of FTE (as of September 30, 2014) | | | | | |
| tal Salary and Wage Expenditure | | | | | |
| tal Fringe Benefits Expenditure (Fixed Charges) | | | | | |
| FTE who only work with English Language Learner Students | | | | | |
| FTE who only work with At-Risk Students | | | | | |
| | | | | | |

| | Contractual Services Object 200) | Supplies/ Materials (Object 300) | Other Charges* (Object 400) | Equipment/ Technology (Object 554) | | | | |
|---------------------|--|-------------------------------------|--------------------------------|--|--|--|--|--|
| Total District Cost | | | | | | | | |
| | *Expenditures reported here for Other Charges (400) should exclude employee fringe benefits. | | | | | | | |
| Notes or Questions: | | | | | | | | |

| SCHOOL (MID-LEVEL) ADMINISTRATION PAGE (Data shoul | ld be entered in c | olumns B-I and ro | ws 7-17) | | | | | |
|--|--------------------------------|---------------------------------|--------------------------------------|--------------------------|--------------------|---|--|--|
| | | | | | | | | |
| Office of Principal (20215) | | | | | | | | |
| | Principal | Assistant or Vice Principals | Other School-Level Administrators | Business Managers | Secretaries/Clerks | Student Personnel Workers Account 20215 | Aides in Expenditure Account 20215 | Other Staff in Expenditure Account 20215 |
| # of FTE (as of September 30, 2014) | | | | | | | | |
| Total Salary and Wage Expenditure | | | | | | | | |
| Total Fringe Benefits Expenditure (Fixed Charges) | | | | | | | | |
| # FTE who only work with English Language Learner Students | | | | | | | | |
| # FTE who only work with At-Risk Students | | | | | | | | |
| Non-Personnel Costs (20215) | Contractual Services Object | Supplies/ Materials (Object | Other Charges* | Equipment/ Technology | | | | |
| | 200) | 300) | (Object 400) | (Object 554) | | | | |
| Total School Cost | | | | | | | | |
| | *Expenditures repo | rted here for Other (| Charges (400) should | exclude employee | e fringe benefits. | | | |
| Notes or Questions: | | | | | 1 | | | |

| Instructional Salaries (Category 203) | | | | | | | | | | | | |
|--|---------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|------------------|------------------|----------------|---------------------|---------------|
| | | | | | | | | | | | | |
| | | | Coaches, | | | | | | | | Other Para- | |
| | | | mentor | Teacher | | | | | | | professionals | Other Sta |
| | | Long-Term | teachers, | Aids or | | | | Therapists | | | in | in |
| | | Substitute | specialist | Teaching | Librarians/ | Guidance | Social | (OT/PT/Spee | | Itinerate | Expenditure | Expenditur |
| | Teachers* | Teachers | teachers | Assistants | Media | Counselors | Workers | | Psychologists | Teachers | Account 203 | |
| # of FTE (as of September 30, 2014) | | | | | | | | | | | | |
| Total Salary and Wage Expenditure | | | | | | | | | | | | |
| Total Fringe Benefits Expenditure (Fixed Charges) | | | | | | | | | | | | |
| # FTE who only work with English Language Learner Students | | | | | | | | | | | | |
| # FTE who only work with At-Risk Students | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | |
| | *Do not inclu | ide long-term s | substitute tea | chers in this c | olumn | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Extracurricul | Substitutes | | | | | 6 | | | | | |
| | | | | | | | | | es working extra | curricular act | tivities for Instru | uctional Sala |
| Total School Cost | | | - In cell C | 16 please ente | r the school's | total expendit | ure for substit | utes for Instruc | tional Salaries | | | |
| | | | | | | | | | | | | |
| Instructional Textbooks/Supplies (Category 204) | | | | | | | | | | | | |
| instructional Textbooks Supplies (Category 204) | Total | | | | | 1 | | | | | | 1 |
| | School | | | | | | | | | | | |
| | 301001 | | | | | | | | | | | |
| | | - In cell B | 22 plazea anti | ar the amount | attributable to | the specific s | chool if identi | iable if not | | | | |
| Total School Cost | | | | | | for Category 2 | | | | | | |
| OR | OR | ٢ | | | | | | т. | | | | |
| Total Amount Spent by District for Category 204 | UK | | | | | | | | | | | |
| Total Amount Spent by District for Category 204 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Other Instructional Costs (Category 205) | | | | | | | | | | | | |
| Other manuctional costs (Category 200) | | | 1 | | | 1 | | | | | 1 | 1 |
| | | - In cell B | 20 nlease ent | er the amount | attributable to | the specific s | chool if identi | fiable if not | | | | |
| Total School Cost | | | | | | for Category 2 | | | | | | |
| OR | OR | <u> </u> | | | | | | | | | | |
| Total Amount Spent by District for Category 205 | | İ | | | | | | | | | | |
| Total Amount opent by District for Oalegoly 200 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | |] | l. | l. | l. | <u>l</u> | l. | l. | | | | |
| | 1 | | | | | | | | | | | |
| Notes or Questions: | 1 | | | | | | | | | | | |

| OTHER COSTS PAGE (Data should be entered in | columns B-F and rows | s 6-24) | | | |
|--|---|-------------------------------------|--|--|---------------------------|
| | Student Personnel Services 207 | Student Health Services 208 | Operation of Plant 210 | Maintenance of Plant 211 | Community Services 214 |
| Fotal School Cost | | | | | |
| Total Salary and Wage Expenditure | | | | | |
| Total Fringe Benefits Expenditure (Fixed Charges) | | | | | |
| Non-Personnel Costs | Contractual Services (Object 200) | Supplies/ Materials (Object 300) | Fixed/Other Charges* (Category 212/ Object 400) | Equipment/ Technology (Object 554) | Other Program Costs |
| Total School Cost | | | | | |
| OR - IF NOT AVAILABLE BY SCHOOL, PLEAS Total District Cost Total Salary and Wage Expenditure | | | | | |
| Total Fringe Benefits Expenditure (Fixed Charges) | | | | | |
| Non-Personnel Costs | Contractual Services (Object 200) | Supplies/ Materials (Object 300) | Fixed/Other Charges* (Category 212/ Object 400) | Equipment/ Technology (Object 554) | Other Program Costs |
| Total District Cost | | | | | |
| | | ted here for Fixed/Ot | ther Charges (Catego | ory 212/Object 400) | should exclude |
| | employee fringe be | nefits. | | | |

| Please enter other comments you may have below: | COMMENTS PAGE (Enter any other comments, notes, concerns here) | | | | | |
|---|--|--|--|--|--|--|
| Please enter other comments you may have below: | | | | | | |
| | Please enter other comments you may have below: | | | | | |
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Appendix D

Impact of Changes in the Formula

Table D.1 Impact of Enrollment Count Changes

| Districts | Student Count Greater of Single or Rolling Average w. Prek | Student Count Single Year w. Prek | Difference | Student Count Greater of Single or Rolling Average w. Prek | Student Count Single Year | Difference | % Difference |
|-----------------|---|---|------------|--|------------------------------|--------------|--------------|
| Allegany | 9,070 | 9,005 | 65 | \$80,030,248 | \$79,456,709 | \$573,539 | 1% |
| Anne Arundel | 79,263 | 79,263 | - | \$956,378,725 | \$956,378,725 | - | 0% |
| Baltimore City | 85,890 | 85,890 | - | \$996,155,844 | \$996,155,844 | - | 0% |
| Baltimore | 109,394 | 109,394 | - | \$1,267,569,114 | \$1,267,569,114 | - | 0% |
| Calvert | 16,486 | 16,361 | 125 | \$193,539,839 | \$192,066,530 | \$1,473,309 | 1% |
| Caroline | 5,626 | 5,626 | - | \$56,496,337 | \$56,496,337 | - | 0% |
| Carroll | 26,957 | 26,556 | 401 | \$288,893,313 | \$284,582,481 | \$4,310,832 | 2% |
| Cecil | 15,939 | 15,924 | 15 | \$173,412,439 | \$173,256,493 | \$155,946 | 0% |
| Charles | 26,841 | 26,662 | 179 | \$308,093,992 | \$306,031,706 | \$2,062,286 | 1% |
| Dorchester | 4,776 | 4,776 | - | \$47,960,734 | \$47,960,734 | - | 0% |
| Frederick | 41,067 | 41,067 | - | \$467,811,601 | \$467,811,601 | - | 0% |
| Garrett | 4,086 | 3,989 | 97 | \$36,052,703 | \$\$35,200,483 | \$852,220 | 2% |
| Harford | 38,397 | 38,264 | 133 | \$448,260,424 | \$446,699,967 | \$1,560,457 | 0% |
| Howard | 53,704 | 53,704 | - | \$660,843,619 | \$660,843,619 | - | 0% |
| Kent | 2,216 | 2,196 | 20 | \$22,256,851 | \$22,055,169 | \$201,682 | 1% |
| Montgomery | 153,732 | 153,732 | - | \$1,950,252,010 | \$1,950,252,010 | - | 0% |
| Prince George's | 125,957 | 125,957 | - | \$1,547,189,187 | \$1,547,189,187 | - | 0% |
| Queen Anne's | 7,827 | 7,804 | 23 | \$78,602,152 | \$78,372,855 | \$229,297 | 0% |
| St. Mary's | 17,962 | 17,962 | - | \$210,868,076 | \$210,868,076 | - | 0% |
| Somerset | 3,061 | 3,061 | - | \$31,339,889 | \$31,339,889 | - | 0% |
| Talbot | 4,718 | 4,717 | - | \$47,376,778 | \$47,376,778 | - | 0% |
| Washington | 22,855 | 22,855 | - | \$237,971,479 | \$237,971,479 | - | 0% |
| Wicomico | 15,019 | 15,014 | 5 | \$153,767,157 | \$153,718,526 | \$48,631 | 0% |
| Worcester | 6,864 | 6,864 | - | \$70,277,559 | \$70,277,559 | - | 0% |
| Total | 877,707 | 876,643 | 1,064 | \$10,331,400,071 | \$10,319,931,871 | \$11,468,199 | |

Table D.2 Impact of Prekindergarten Count

| | Student Count | Student Count | - | | Total Program w. | Total Program w.o. | | |
|-----------------|---------------|----------------|------------|----------|------------------|--------------------|---------------|----------|
| District | w. Preschool | w.o. Preschool | Difference | % Change | Preschool | Preschool | Difference | % Change |
| Allegany | 9,070 | 8,379 | 691 | 8% | \$106,193,944 | \$100,092,899 | \$6,101,045 | 6% |
| Anne Arundel | 79,263 | 76,181 | 3,082 | 4% | \$1,161,936,991 | \$1,124,752,118 | \$37,184,873 | 3% |
| Baltimore City | 85,890 | 79,352 | 6,538 | 8% | \$1,449,109,710 | \$1,373,284,710 | \$75,825,000 | 6% |
| Baltimore | 109,394 | 104,358 | 5,036 | 5% | \$1,636,358,800 | \$1,578,003,807 | \$58,354,993 | 4% |
| Calvert | 16,486 | 15,948 | 538 | 3% | \$225,294,976 | \$218,979,937 | \$6,315,039 | 3% |
| Caroline | 5,626 | 5,235 | 391 | 7% | \$73,873,587 | \$69,948,376 | \$3,925,211 | 6% |
| Carroll | 26,957 | 26,351 | 606 | 2% | \$338,196,159 | \$331,698,563 | \$6,497,596 | 2% |
| Cecil | 15,939 | 15,114 | 824 | 5% | \$220,398,254 | \$211,429,762 | \$8,968,492 | 4% |
| Charles | 26,841 | 25,703 | 1,138 | 4% | \$370,978,635 | \$357,918,741 | \$13,059,894 | 4% |
| Dorchester | 4,776 | 4,505 | 271 | 6% | \$63,156,163 | \$60,435,720 | \$2,720,443 | 5% |
| Frederick | 41,067 | 39,472 | 1,596 | 4% | \$560,038,906 | \$541,861,372 | \$18,177,534 | 3% |
| Garrett | 4,086 | 3,882 | 204 | 5% | \$45,089,530 | \$43,291,088 | \$1,798,442 | 4% |
| Harford | 38,397 | 37,189 | 1,209 | 3% | \$550,008,571 | \$535,897,566 | \$14,111,005 | 3% |
| Howard | 53,704 | 51,630 | 2,074 | 4% | \$66,474,431 | \$740,949,342 | \$25,525,089 | 3% |
| Kent | 2,216 | 2,015 | 201 | 10% | \$28,665,436 | \$26,644,536 | \$2,020,900 | 8% |
| Montgomery | 153,732 | 147,462 | 6,269 | 4% | \$2,467,169,557 | \$2,387,635,447 | \$79,534,110 | 3% |
| Prince George's | 125,957 | 119,281 | 6,676 | 6% | \$2,110,671,451 | \$2,028,669,742 | \$82,001,709 | 4% |
| Queen Anne's | 7,827 | 7,494 | 333 | 4% | \$95,172,967 | \$91,830,709 | \$3,342,258 | 4% |
| St. Mary's | 17,962 | 16,890 | 1,072 | 6% | \$252,865,758 | \$240,281,110 | \$12,584,648 | 5% |
| Somerset | 3,061 | 2,727 | 334 | 12% | \$43,559,075 | \$40,138,430 | \$3,420,645 | 9% |
| Talbot | 4,718 | 4,299 | 419 | 10% | \$58,485,958 | \$54,275,748 | \$4,210,209 | 8% |
| Washington | 22,855 | 21,939 | 916 | 4% | \$300,346,598 | \$290,810,101 | \$9,536,497 | 3% |
| Wicomico | 15,019 | 13,934 | 1,085 | 8% | \$203,312,762 | \$192,205,571 | \$11,107,190 | 6% |
| Worcester | 6,864 | 6,249 | 615 | 10% | \$89,045,641 | \$82,745,843 | \$6,299,798 | 8% |
| Total | 877,707 | 835,589 | 42,118 | 5% | \$13,216,403,859 | \$12,723,781,238 | \$492,622,622 | 4% |

| | Total Program Amount with CWI | Total Program Amount without CWI | Difference | % Difference |
|-----------------|----------------------------------|-------------------------------------|-----------------|--------------|
| Allegany | \$106,193,944 | \$130,941,978 | \$(24,748,034) | -19% |
| Anne Arundel | \$1,161,936,991 | \$1,047,733,987 | \$114,203,005 | 11% |
| Baltimore City | \$1,449,109,710 | \$1,359,389,971 | \$89,719,738 | 7% |
| Baltimore | \$1,636,358,800 | \$1,536,487,136 | \$99,871,664 | 6% |
| Calvert | \$225,294,976 | \$208,799,793 | \$16,495,184 | 8% |
| Caroline | \$73,873,587 | \$80,036,389 | \$(6,162,802) | -8% |
| Carroll | \$338,196,159 | \$343,346,354 | \$(5,150,195) | -2% |
| Cecil | \$220,398,254 | \$220,398,254 | - | 0% |
| Charles | \$370,978,635 | \$351,638,517 | \$19,340,118 | 5% |
| Dorchester | \$63,156,163 | \$68,424,879 | \$(5,268,716) | -8% |
| Frederick | \$560,038,906 | \$534,898,669 | \$25,140,237 | 5% |
| Garrett | \$45,089,530 | \$55,597,447 | \$(10,507,918) | -19% |
| Harford | \$550,008,571 | \$512,589,534 | \$37,419,036 | 7% |
| Howard | \$766,474,431 | \$677,696,225 | \$88,778,206 | 13% |
| Kent | \$28,665,436 | \$31,056,810 | \$(2,391,374) | -8% |
| Montgomery | \$2,467,169,557 | \$2,115,925,864 | \$351,243,693 | 17% |
| Prince George's | \$2,110,671,451 | \$1,869,505,271 | \$241,166,180 | 13% |
| Queen Anne's | \$95,172,967 | \$103,112,640 | \$(7,939,673) | -8% |
| St. Mary's | \$252,865,758 | \$234,351,954 | \$18,513,804 | 8% |
| Somerset | \$43,559,075 | \$46,290,197 | \$(2,731,122) | -6% |
| Talbot | \$58,485,958 | \$63,365,068 | \$(4,879,110) | -8% |
| Washington | \$300,346,598 | \$313,841,795 | \$(13,495,197) | -4% |
| Wicomico | \$203,312,762 | \$216,060,321 | \$(12,747,559) | -6% |
| Worcester | \$89,045,641 | \$94,628,736 | \$(5,583,095) | -6% |
| Total | \$13,216,403,859 | \$12,216,117,789 | \$1,000,286,071 | 8% |

Table D.3a Impact of CWI on Total Program Amount*

*Consists of the foundation, compensatory education, LEP, and special education programs.

| | State Share of | Local Share of | Total |
|-----------------|----------------|----------------|-----------------|
| District | CWI Cost | CWI Cost | CWI Cost |
| Allegany | \$(26,342,068) | \$1,594,034 | \$(24,748,034) |
| Anne Arundel | \$51,856,540 | \$62,346,465 | \$114,203,005 |
| Baltimore City | \$75,048,020 | \$14,671,718 | \$89,719,738 |
| Baltimore | \$37,010,482 | \$62,861,182 | \$99,871,664 |
| Calvert | \$9,515,213 | \$6,979,971 | \$16,495,184 |
| Caroline | \$(7,042,088) | \$879,287 | \$(6,162,802) |
| Carroll | \$(16,620,941) | \$11,470,745 | \$(5,150,195) |
| Cecil | \$(4,461,435) | \$4,461,435 | \$0 |
| Charles | \$11,322,577 | \$8,017,542 | \$19,340,118 |
| Dorchester | \$(6,399,061) | \$1,130,345 | \$(5,268,716) |
| Frederick | \$9,852,015 | \$15,288,222 | \$25,140,237 |
| Garrett | \$(12,551,586) | \$2,043,668 | \$(10,507,918) |
| Harford | \$20,881,905 | \$16,537,131 | \$37,419,036 |
| Howard | \$50,319,902 | \$38,458,303 | \$88,778,205 |
| Kent | \$(392,391) | \$(1,998,984) | \$(2,391,374) |
| Montgomery | \$161,887,137 | \$189,356,557 | \$351,243,693 |
| Prince George's | \$203,781,931 | \$37,384,249 | \$241,166,180 |
| Queen Anne's | \$(12,026,275) | \$4,086,602 | \$(7,939,673) |
| St. Mary's | \$11,732,625 | \$6,781,180 | \$18,513,804 |
| Somerset | \$(3,170,309) | \$439,187 | \$(2,731,122) |
| Talbot | \$0 | \$(4,879,110) | \$(4,879,110) |
| Washington | \$(18,936,520) | \$5,441,323 | \$(13,495,197) |
| Wicomico | \$(15,226,658) | \$2,479,099 | \$(12,747,559) |
| Worcester | \$0 | \$(5,583,095) | \$(5,583,095) |
| Total | \$520,039,015 | \$480,247,056 | \$1,000,286,070 |

Table D.3b State and Local Shares of CWI Impact on Total Program Amount*

*Consists of the foundation, compensatory education, LEP, and special education programs.

| | Differences between Multiplicative and Additive Approaches* Additive State Multiplicative Additive Local Multiplicative | | | | | | | | | |
|-----------------|---|-----------------|-----------------|--------------|-----------------|-----------------|-----------------|-------------|--|--|
| District | Share | State Share | Difference | % Difference | Share | Local Share | Difference | %Difference | | |
| Allegany | \$67,470,603 | \$84,760,301 | \$17,289,698 | 26% | \$38,723,341 | \$21,433,643 | \$ 17,289,698) | -45% | | |
| Anne Arundel | \$420,459,602 | \$338,187,597 | \$ (82,272,005) | -20% | \$741,477,389 | \$823,749,394 | \$82,272,005 | 11% | | |
| Baltimore City | \$1,088,759,048 | \$1,255,260,400 | \$166,501,352 | 15% | \$360,350,661 | \$193,849,309 | \$ 166,501,352) | -46% | | |
| Baltimore | \$794,951,043 | \$805,808,718 | \$10,857,675 | 1% | \$841,407,757 | \$830,550,082 | \$(10,857,675) | -1% | | |
| Calvert | \$110,284,633 | \$132,316345 | \$22,031,712 | 20% | \$115,010,344 | \$92,978,632 | \$(22,031,712) | -19% | | |
| Caroline | \$49,824,768 | \$62,256,061 | \$12,431,293 | 25% | \$24,048,819 | \$11,617,526 | \$(12,431,293) | -52% | | |
| Carroll | \$157,671,389 | \$182,371,694 | \$24,700,305 | 16% | \$180,524,770 | \$155,824,465 | \$(24,700,305) | -14% | | |
| Cecil | \$130,470,625 | \$160,424,468 | \$29,953,843 | 23% | \$89,927,629 | \$59,973,786 | \$(29,953,843) | -33% | | |
| Charles | \$215,912,112 | \$263,859,425 | \$47,947,313 | 22% | \$155,066,523 | \$107,119,210 | \$(47,947,313) | -31% | | |
| Dorchester | \$37,173,179 | \$48,221,525 | \$11,048,346 | 30% | \$25,982,984 | \$14,934,638 | \$(11,048,346) | -43% | | |
| Frederick | \$300,624,988 | \$358,044,072 | \$57,419,084 | 19% | \$259,413,918 | \$201,994,834 | \$(57,419,084) | -22% | | |
| Garrett | \$7,911,706 | \$17,831,996 | \$9,920,290 | 125% | \$37,177,824 | \$27,257,534 | \$(9,920,290) | -27% | | |
| Harford | \$287,515,134 | \$329,614,473 | \$42,099,339 | 15% | \$262,493,436 | \$220,394,097 | \$(42,099,339) | -16% | | |
| Howard | \$316,411,856 | \$284,723,521 | \$(31,688,335) | -10% | \$450,062,575 | \$481,750,910 | \$31,688,335 | 7% | | |
| Kent | \$2,711,254 | \$0 | \$(2,711,254) | -100% | \$25,594,182 | \$28,665,436 | \$2,711,254 | 12% | | |
| Montgomery | \$781,964,849 | \$210,685,890 | \$(571,278,959) | -73% | \$1,685,204,708 | \$2,256,483,667 | \$571,278,959 | 34% | | |
| Prince George's | \$1,385,585,044 | \$1,616,734,015 | \$231,148,971 | 17% | \$725,086,407 | \$493,937,436 | \$(231,148,971) | -32% | | |
| Queen Anne's | \$28,601,540 | \$31,948,463 | \$3,346,923 | 12% | \$66,571,427 | \$63,224,504 | \$(3,346,923) | -5% | | |
| St. Mary's | \$137,894,021 | \$162,528,290 | \$24,634,269 | 18% | \$114,971,737 | \$90,337,468 | \$(24,634,269) | -21% | | |
| Somerset | \$30,765,317 | \$37,756,339 | \$6,991,022 | 23% | \$12,793,758 | \$5,802,736 | \$(6,991,022) | -55% | | |
| Talbot | \$0 | \$0 | \$0 | 0% | \$58,485,958 | \$58,485,958 | \$0 | 0% | | |
| Washington | \$182,441,600 | \$228,453,419 | \$46,011,819 | 25% | \$117,904,998 | \$71,893,179 | \$(46,011,819) | -39% | | |
| Wicomico | \$140,514,364 | \$170,557,795 | \$30,043,431 | 21% | \$62,798,398 | \$32,754,966 | \$(30,043,432) | -48% | | |
| Worcester | \$0 | \$0 | \$0 | 0% | \$89,045,641 | \$89,045,641 | \$0 | 0% | | |
| Total | \$6,675,918,675 | \$6,782,344,807 | \$106,426,132 | | \$6,540,485,184 | \$6,434,059,051 | \$(106,426,133) | | | |

 Table D.4

 Differences between Multiplicative and Additive Approaches*

*Excludes student transportation.

Table D.5

Differences between Minimum State Aid Guarantees and No State Aid Guarantees*

| | Foundation State Share w. Minimum Aid | Foundation State Share w.o Minimum Aid | | | Special Need Weights State Share w. Minimum | Special Need Weights State Share w.o. Minimum Aid | | |
|-----------------|---|--|-----------------|----------|--|---|----------------------|---------|
| District | Guarantees | Guarantees | Difference | % Change | Aid Guarantees | Guarantees | Difference | %Change |
| Allegany | \$63,005,569 | \$63,005,569 | - | 0% | \$21,774,497 | \$21,754,732 | \$(19,765) | 0% |
| Anne Arundel | \$312,445,304 | \$312,445,304 | - | 0% | \$78,798,760 | \$25,742,293 | \$(53,056,467) | -67% |
| Baltimore City | \$844,621,834 | \$844,621,834 | - | 0% | \$410,638,566 | \$410,638,566 | - | 0% |
| Baltimore | \$618,319,525 | \$618,319,525 | - | 0% | \$192,726,059 | \$187,489,193 | \$(5,236,866) | -3% |
| Calvert | \$119,925,434 | \$119,925,434 | - | 0% | \$14,229,067 | \$12,390,910 | \$(1,838,157) | -13% |
| Caroline | \$47,414,797 | \$47,414,797 | - | 0% | \$14,841,264 | \$14,841,264 | - | 0% |
| Carroll | \$165,298,372 | \$165,298,372 | - | 0% | \$24,701,378 | \$17,073,321 | \$(7,628,057) | -31% |
| Cecil | \$126,104,957 | \$126,104,957 | - | 0% | \$34,540,375 | \$34,319,511 | \$(220,864) | -1% |
| Charles | \$223,682,886 | \$223,682,886 | - | 0% | \$40,613,636 | \$40,176,539 | \$(437,097) | -1% |
| Dorchester | \$36,286,173 | \$36,286,173 | - | 0% | \$11,963,375 | \$11,935,352 | \$(28,023) | 0% |
| Frederick | \$309,910,150 | \$309,910,150 | - | 0% | \$48,133,922 | \$48,133,922 | - | 0% |
| Garrett | \$14,359,473 | \$14,359,473 | - | 0% | \$4,089,044 | \$3,472,523 | \$(616,522) | -15% |
| Harford | \$273,958,856 | \$273,958,856 | - | 0% | \$56,239,096 | \$55,655,617 | \$(583 <i>,</i> 479) | -1% |
| Howard | \$272,574,368 | \$272,574,368 | - | 0% | \$39,775,514 | \$12,149,153 | \$(27,626,361) | -69% |
| Kent | \$3,338,528 | - | \$(3,338,528) | -100% | \$2,643,025 | - | \$(2,643,025) | -100% |
| Montgomery | \$292,537,802 | \$149,422,769 | \$(143,115,032) | -49% | \$207,945,893 | \$61,263,121 | \$(146,682,772) | -71% |
| Prince George's | \$1,161,073,185 | \$1,161,073,185 | - | 0% | \$455,660,831 | \$455,660,831 | - | 0% |
| Queen Anne's | \$28,219,832 | \$28,219,832 | - | 0% | \$6,931,752 | \$3,728,631 | \$(3,203,121) | -46% |
| St. Mary's | \$139,565,742 | \$139,565,742 | - | 0% | \$23,273,176 | \$22,962,548 | \$(310,628) | -1% |
| Somerset | \$26,803,830 | \$26,803,830 | - | 0% | \$10,952,509 | \$10,952,509 | - | 0% |
| Talbot | \$7,106,517 | - | \$(7,106,517) | -100% | \$4,561,383 | - | \$(4,561,383) | -100% |
| Washington | \$181,771,837 | \$181,771,837 | - | 0% | \$ 47,159,608 | \$46,681,582 | \$(478,026) | -1% |
| Wicomico | \$128,162,261 | \$128,162,261 | - | 0% | \$42,395,535 | \$42,395,535 | - | 0% |
| Worcester | \$10,541,634 | - | \$(10,541,634) | -100% | \$7,699,537 | - | \$(7,699,537) | -100% |
| Total | \$5,407,028,866 | \$5,242,927,154 | \$(164,101,711) | -3% | \$1,802,287,803 | \$1,539,417,653 | \$(262,870,150) | -15% |

*Consists of the foundation, compensatory education, LEP, and special education state aid programs.

Appendix E:

An Estimate of the Cost of Providing High-Quality Early Childhood Education to Low-Income Three-Year-Olds

It is not a recommendation of the study team that the State should fund high-quality preschool for three-year-old low-income children. Though the research studies have identified a modest gain for low-income children receiving two years of quality preschool, that gain is significantly lower than providing a high-quality preschool experience for four-year-old children. The study team recommendation covers only four-year-old children. See Workman, S., Palaich, R., & Wool, S. (2016, January). A Comprehensive Analysis of Prekindergarten in Maryland. Denver, CO: Augenblick, Palaich & Associates.

That said, several requests have been made to the Maryland partners and the study team for an estimate of the cost of providing high-quality early childhood education to low-income three-year-olds. The study team had the data that could be used to generate this estimate, and the estimate is presented in this Appendix.

Several figures and underlying assumptions were accounted for in the process of generating the cost estimate for serving low-income three-year-olds. They include the following.

- The number of three-year-olds in the state. The study team used the same sources and procedures that were used to generate the number four-year- olds used in the prekindergarten report to estimate the cost of providing high-quality preschool services in the year before kindergarten. For this cost estimate we have created the three-year-old count in the same manner using census data. The statewide figure for three-year- olds was 76,635.
- An estimate of the percentage of the total number of children that come from families with low incomes. There are several ways of deriving this percentage and there are several counts on which it can be based. For the purpose of this estimate, the study team used the statewide average of the school-based FRPMs (free and reduced priced meals) count. On a statewide basis, 29.4 percent of the State's children are FRPMs eligible. Applying this percentage results in a figure of 22,531 low-income, three-year-old children.
- At this point, it is typical to remove the percentage of the students from families that would choose *not* to send their children to preschool or childcare. Statewide for all students, the figure used in the four-year-old cost analysis was 26 percent. For the sub-population of low-income families, we would expect a smaller percentage of families opting out of the opportunity. The study team selected a factor of 10 percent that would opt out of the service opportunity. This results in a figure of 20,278 low-income, three-year-old children likely to participate.
- The next factor that must be taken into consideration is the distribution of children across types of Early Childhood Education (ECE) sites. The choices include public schools, centers, family homes and Head Start sites. The study team applied the same distribution across these four types of sites as was found in the distribution of the general population. Forty-eight percent of the population would attend a public school program, 42 percent of the population would attend a center-based program, four percent would attend a program in a family home and six percent would attend a Head Start program. Since Head Start programs are funded independently, children attending these programs were removed from the funding analysis. This results in a figure of 19,061 likely to participate, low-income, three-year-old children.

• The final factor taken into consideration is the quality ratings used by the State, EXCELS. In the analysis of four-year-old prekindergarten students, only those children attending public-school prekindergarten programs or those attending private preschool which have received a rating of EXCELS Level 5 or have outside accreditation are eligible for state support. The estimate of this number is 11,437 children attending public or private settings that meet the high-quality criteria. This figure represents 60 percent of likely to participate, low-income, three-year-old children excluding Head Start.

Applying the per-child cost of quality figures by type of site reported in Table 40 of the study team's prekindergarten report, the cost of serving existing (60 percent), low-income three-year-olds in Maryland would be just under \$135 million. To fund 80 percent of those likely to participate (an additional 3,800 students), the additional cost would be approximately \$45 million. Table E1 illustrates the counts of children and the costs associated with the high-quality sites attended by the children from low-income families. These counts and costs are further distributed across districts using the number of four-year-old children by district developed in the prekindergarten report; see Table 2 of the study team's prekindergarten report.

| i anang i | Funding Required to Serve 60 or 80 Percent of Three-Year-Olds in High-Quality Programs | | | | | | | | |
|------------------|--|---|---|---|--|--|--|--|--|
| District | Estimated Three- Year-Old, Low Income Count | Estimated 60 Percent Three- Year-Old, Low Income Count | Estimated 80 Percent Three- Year-Old, Low Income Count | Estimated Cost for Current (60 Percent) Coverage | Estimated Cost for 80 Percent Coverage | | | | |
| Allegany | 289 | 173 | 231 | \$2,040,586 | \$2,720,782 | | | | |
| Anne Arundel | 1,572 | 943 | 1,258 | \$11,117,501 | \$14,823,334 | | | | |
| Baltimore City | 2,432 | 1,459 | 1,945 | \$17,195,951 | \$22,927,934 | | | | |
| Baltimore | 2,569 | 1,541 | 2,055 | \$18,166,567 | \$24,222,089 | | | | |
| Calvert | 269 | 161 | 215 | \$1,903,019 | \$2,537,358 | | | | |
| Caroline | 190 | 114 | 152 | \$1,340,010 | \$1,786,681 | | | | |
| Carroll | 444 | 267 | 355 | \$3,141,127 | \$4,188,169 | | | | |
| Cecil | 316 | 190 | 253 | \$2,236,747 | \$2,982,330 | | | | |
| Charles | 535 | 321 | 428 | \$3,785,657 | \$5,047,542 | | | | |
| Dorchester | 105 | 63 | 84 | \$743,884 | \$991,845 | | | | |
| Frederick | 757 | 454 | 605 | \$5,349,851 | \$7,133,135 | | | | |
| Garrett | 71 | 43 | 57 | \$504,415 | \$672,553 | | | | |
| Harford | 733 | 440 | 586 | \$5,181,713 | \$6,908,951 | | | | |
| Howard | 1,002 | 601 | 801 | \$7,082,184 | \$9,442,912 | | | | |
| Kent | 67 | 40 | 54 | \$476,392 | \$635,189 | | | | |
| Montgomery | 3,205 | 1,923 | 2,564 | \$22,660,442 | \$30,213,922 | | | | |
| Prince George's | 2,601 | 1,561 | 2,081 | \$18,395,846 | \$24,527,794 | | | | |
| Queen Anne's | 150 | 90 | 120 | \$1,057,233 | \$1,409,643 | | | | |
| Saint Mary's | 424 | 254 | 339 | \$2,998,464 | \$3,997,952 | | | | |
| Somerset | 159 | 96 | 127 | \$1,126,016 | \$1,501,355 | | | | |
| Talbot | 155 | 93 | 124 | \$1,092,898 | \$1,457,198 | | | | |
| Washington | 460 | 276 | 368 | \$3,250,672 | \$4,334,229 | | | | |
| Wicomico | 349 | 210 | 280 | \$2,471,122 | \$3,294,829 | | | | |
| Worcester | 208 | 125 | 166 | \$1,469,935 | \$1,959,914 | | | | |
| Statewide Totals | 19,061 | 11,437 | 15,249 | \$134,788,230 | \$179,717,640 | | | | |

 Table E.1

 Funding Required To Serve 60 or 80 Percent of Three-Year-Olds in High-Quality Programs

Source: APA calculations based on MSDE data

The estimates presented in Table E1 are not adjusted for existing or future funding streams. The majority of state and federal contribution were already accounted for in the four-year-old analysis presented in the "A Comprehensive Analysis of Prekindergarten in Maryland" report. Further parsing of existing funds would be problematic and is beyond the scope of this analysis.