## Abington Heights School District Grade 1 Mathematics Curriculum



In First Grade, students develop their numeracy skills through the following areas of study:

1. Numbers and Operations in Base Ten
2. Operations and Algebraic Thinking
3. Geometry
4. Measurement and Data

Board Approval Date: 5/3/2023
Adoption: 2023-2024 SY
Review Date:


## Abington Heights Math Framework

| Stakeholders | Actions |
| :---: | :---: |
| Students | $\star$ Engage in mathematical discussions, share their ideas openly, be inquisitive, seek to understand and learn more about mathematical concepts, and try their best daily. <br> $\star$ Exhibit creativity and curiosity in problem solving individually and collaboratively. <br> $\star$ Persevere in engaging and challenging daily mathematical practice. <br> $\star$ Come prepared to learn every day. |
| Teachers | $\star$ Create a safe and collaborative classroom environment where students feel vested in a shared vision for mathematical excellence. <br> $\star$ Develop high quality instruction that meets the needs of all learners through differentiation. <br> $\star$ Use a variety of 21st century methodologies to advance learning. <br> $\star$ Partner with parents and guardians to support student success. <br> $\star$ Establish a collaborative community within the building and amongst grade levels to ensure a cohesive level of instruction. |
| Building Leaders | $\star$ Deeply understand the needs of teachers, students, the instructional materials being used, programs being implemented, and the expectations for state-level assessment scores <br> - Knowledgeable about program and grade level standards <br> $\circ$ Ensure consistent and equal access to high-quality instructional materials and resources, building. Be partners with teachers, students and families: <br> - Provide guidance and support to the mathematical community. <br> - Understand needs of teachers, students and families. <br> Trust the educators to make professional decisions based on program, student, and district needs. |
| Central Admin | $\star$ Effectively communicate to the school board and community specific areas of need and how to support teachers and building leaders in a quest for mathematical excellence <br> $\star$ Deeply understand the needs of teachers, students, the instructional materials being used, programs being implemented, and the expectations for state-level assessment scores <br> - Have a common metric for mathematical excellence. <br> - Ensure consistent and equal access to high-quality instructional materials and resources, district. <br> $\circ$ Re-examine best practices/curriculum routinely ( 6 years). <br> $\star$ Support a culture of collaboration between the other stakeholder groups to maintain the standard of excellence of the Abington Heights <br> $\star$ Trust the educators to make professional decisions based on program, student, and district needs. |
| Parents/ Community | $\star$ Be a strong support system and contribute by building a positive math community for students. <br> $\star$ Encourage a positive math mindset. <br> $\star$ Have conversations with their children about school and ask what they are learning about in school. <br> $\star$ Be open, receptive to the district's ideas about student learning and reach out to teachers/school to learn more about how they can support. <br> $\star$ Trust the educators to make professional decisions based on program, student, and district needs. |
| School Board | $\star$ Provide the fiscal resources to support: <br> - Highly qualified professionals for mathematics <br> - High-quality instructional materials <br> - Effective and efficient math interventions for remediation <br> - Professional development for math content and instructional practices <br> Trust the educators to make professional decisions based on program, student, and district needs. |

## Abington Heights Grade 1 Mathematics Curriculum

| PA Core Standards | Everyday Mathematics Grade 1 Lessons |
| :---: | :---: |
| Numbers and Operations in Base Ten |  |
| CC.2.1.1.B. 1 Extend the counting sequence to read and write numerals to represent objects. | Routines 1, 2, 3, 4, 5, 6; 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 1-11, 2-1, $2-3,2-4,2-7,3-3,3-5,3-6,3-7,3-8,3-9,3-10,3-11,4-4,4-5,5-2,5-3$, 5-6 |
| CC.2.1.1.B.2 Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers. | Rountines 1, 2, 3, 5; 1-2, 1-3, 1-6, 2-2, 2-6, 3-1, 4-5, 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-8, 5-9, 5-11, 6-6, 6-8, 6-10, 6-11, 8-10, 8-11, 9-8, 9-9 |
| CC.2.1.1.B. 3 Use place-value concepts and properties of operations to add and subtract within 100. | Routines 1, 2, 3, 5; 4-11, 5-11, 5-12, 6-2, 6-7, 6-8, 7-8, 7-9, 7-10, 8-10, 8-11, 9-1, 9-2, 9-3, 9-4, 9-5, 9-6, 9-7, 9-8, 9-9 |
| Operations and Algebraic Thinking |  |
| CC.2.2.1.A.1 Represent and solve problems involving addition and subtraction within 20. | Routines 1, 2, 3, 4, 5, 6; 1-1, 1-3, 1-5, 1-7, 1-8, 1-10, 1-11, 2-1, 2-2, 2-3, $2-4,2-5,2-6,2-8,2-9,2-10,2-11,3-1,3-2,3-3,3-4,3-5,3-6,3-7,3-8$, 3-9, 3-10, 3-11, 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 5-4, 5-5, 5-7, 5-9, 5-10, 5-11, 5-12, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7, 6-8, 6-9, 7-1, 7-2, 7-3, 7-4, 7-6, 7-8, 7-9, 7-10, 8-7, 8-9, 8-11, 9-2, 9-4, 9-5, 9-6, 9-7, 9-8 |
| CC.2.2.1.A.2 Understand and apply properties of operations and the relationship between addition and subtraction. | Routines 1, 3, 5, 6; 1-10, 2-1, 2-5, 2-8, 2-9, 2-10, 2-11, 3-1, 3-2, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10, 4-8, 4-9, 4-10, 5-4, 5-5, 5-7, 5-9, 5-10, 6-2, 6-3, $6-9,7-1,7-2,7-3,7-4,7-6,7-8,7-9,7-10,9-4,9-8$ |
| Geometry |  |
| CC.2.3.1.A. 1 Compose and distinguish between two- and three-dimensional shapes based on their attributes. | 1-1, 1-3, 1-9, 4-5, 6-3, 7-5, 7-6, 7-7, 8-1, 8-5, 8-6, 8-7, 9-10 |
| CC.2.3.1.A. 2 Use the understanding of fractions to partition shapes into halves and quarters. | $7-6,8-2,8-3,8-4,8-5,8-8,9-4,9-11$ |


| PA Core Standards | Everyday Mathematics Grade $\mathbf{1}$ Lessons |
| :--- | :--- |
| Measurement and Data |  |
| CC.2.4.1.A.1 Order lengths and measure them both indirectly and by <br> repeating length units. | $3-3,4-1,4-2,4-3,4-4,5-7,5-8,9-1$ |
| CC.2.4.1.A.2 Tell and write time to the nearest half hour using both <br> analog and digital clocks. | Routine 6; 6-1, 7-11, 8-8 |
| CC.2.4.1.A.4 Represent and interpret data using tables/charts. | Routines 3, 4, 6; 1-7, 1-8, 2-4, 4-5, 4-6, 8-3, 8-9 |

By the end of 1st Grade, students will:

| Numbers \& Operations in Base Ten | Operations and Algebraic Thinking | Geometry | Measurement and Data |
| :---: | :---: | :---: | :---: |
| Count to 120 <br> Read, write, and represent numerals up to 120 Understand place value (emphasis on 10 and 1 s ) <br> Compare 2 two-digit numbers using place-value concepts Add within 100 including adding a two-digit number and a one-digit number <br> Mental math (10 more or less than any 2 -digit number) Subtract multiples of 10 (10-90) from multiples of 10 (10-90) | Add and subtract within 20 Fluently add and subtract within 10 Apply the commutative property of addition (If $6+4=10$, then $4+6=10$ ) Apply the associative property of addition $(3+5+6$ is the same as $3+11$ ) Represent and solve problems involving addition and subtraction within 20 Evaluate if equations involving addition and subtraction are true Solve word problems involving addition of 3 whole numbers whose sum is within 20 | Reason with circles and rectangles and their attributes Divide shapes into 2 and 4 equal shares and use vocabulary of half of, fourth of, and quarter of | Measure length using non-standard (whole) units (ex. 3 paper clips long) <br> Organize, represent, and interpret to answer questions (how many in each category, how many more or less in one category than another) using tables/charts <br> Tell and write time to the hour and half hour <br> Order and compare objects by length |

## Notes:

