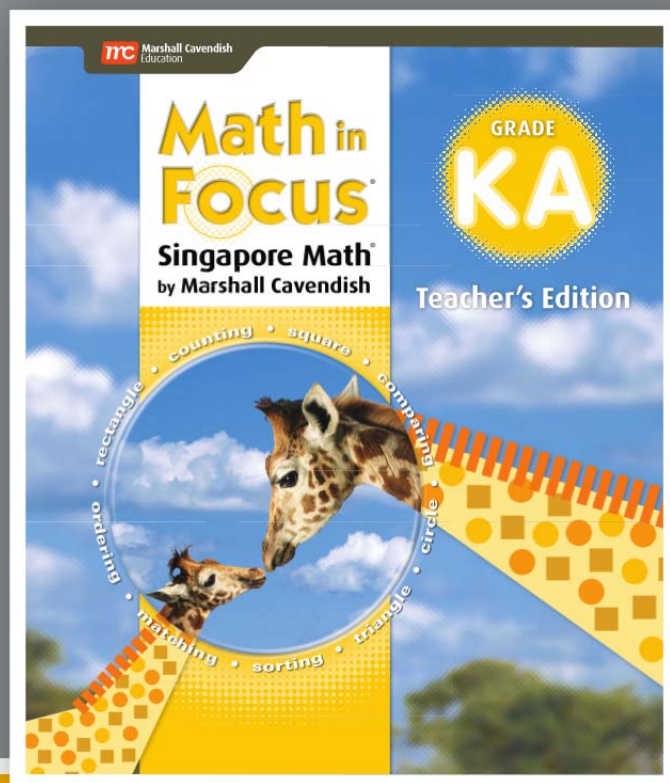


# Correlation to the Oklahoma Academic Standards for Mathematics Grade K



Houghton Mifflin Harcourt  
Oklahoma Math in Focus ©2019  
Grade K



**Houghton Mifflin Harcourt Publishers**  
**Oklahoma Math in Focus, Grade K ©2019**

correlated to the

**Oklahoma Academic Standards for Mathematics**  
**Grade K**

Citations	Standard	Descriptor
<b>K.N.1 Understand the relationship between quantities and whole numbers.</b>		
<u>Volume KA:</u> SE Part 1: 26–29, 30–37, 38–45, 46–55 SE Part 2: 11–15, 36–39, 40–42, 43–49 TE: 32–36, 37–43, 44–50, 51–58, 90–95, 138–142, 143–148, 149–155 Big Book: 8–9, 10, 11, 12–13, 23–24, 36, 37–39, 40–43  <u>Book KB:</u> SE Part 1: 15–17, 18–20, 21–23, 24 TE: 38–43, 44–49, 50–56, 57–60	K.N.1.1	Count aloud forward in sequence to 100 by 1’s and 10’s
<u>Volume KA:</u> SE Part 1: 4–5, 10–12, 13–17, 18–22, 26–29, 30–37, 38–45, 57–58 SE Part 2: 16–17, 36–39, 40–42, 43–49 TE: 2–5, 11–15, 16–21, 22–26, 32–36, 37–43, 44–50, 63–67, 96–99, 138–142, 143–148, 149–155 Big Book: 2–3, 4, 5, 8–9, 10, 11, 16–17, 25–26, 36, 37–39, 40–43  <u>Volume KB:</u> SE Part 1: 49–50 TE: 115–119 Big Book: 20–21	K.N.1.2	Recognize that a number can be used to represent how many objects are in a set up to 10.
<u>Volume KB:</u> SE Part 1: 40–42, 43, 44 TE: 86–90, 91–93, 94–97 Big Book: 13, 14, 20	K.N.1.3	Use ordinal numbers to represent the position of an object in a sequence up to 10.

Citations	Standard	Descriptor
<p><u>Volume KA:</u>  SE Part 1: 6–9, 38–45, 46–55  TE: 6–10, 44–50, 51–58  Big Book: 2–3, 11, 12–13</p>	K.N.1.4	<p>Recognize without counting (subitize) the quantity of a small group of objects in organized and random arrangements up to 10.</p> <p>Clarification statement: Subitizing is defined as instantly recognizing the quantity of a set without having to count. “Subitizing” is not a vocabulary word and is not meant for student discussion at this age.</p>
<p><u>Volume KA:</u>  SE Part 1: 46–55  SE Part 2: 18–20, 22–23, 30–35  TE: 51–58, 100–105, 109–111, 130–137  Big Book: 12–13, 27–29, 33–35</p> <p><u>Volume KB:</u>  SE Part 1: 47–48, 66–69  TE: 110–114, 154–159  Big Book: 16–19, 28–29</p>	K.N.1.5	Count forward, with and without objects, from any given number up to 10.
<p><u>Volume KA:</u>  SE Part 1: 4–5, 10–12, 13–17, 18–22, 26–29, 30–37, 38–45, 46–55  SE Part 2: 11–15, 30–35  TE: 2–5, 11–15, 16–21, 22–26, 32–36, 37–43, 44–50, 51–58, 90–95, 130–137  Big Book: 2–3, 4, 5, 8–9, 10, 11, 12–13, 23–24, 33–35</p>	K.N.1.6	Read, write, discuss, and represent whole numbers from 0 to at least 10. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives.
<p><u>Volume KA:</u>  SE Part 1: 56  SE Part 2: 11–15, 16–17, 21  TE: 59–62, 90–95, 96–99, 106–108  Big Book: 14–15, 23–24, 25–26</p>	K.N.1.7	Find a number that is 1 more or 1 less than a given number up to 10.

Citations	Standard	Descriptor
<p><u>Volume KA:</u>  SE Part 1: 10–12, 14–17, 56, 57–58  SE Part 2: 18–20, 21, 22–23, 50–51  TE: 11–15, 16–21, 59–62, 63–67, 100–105, 106–108, 109–111, 156–159  Big Book: 4, 13, 14–15, 16–17, 27–29</p> <p><u>Volume KB:</u>  SE Part 1: 25–27, 28–29, 49–50  SE Part 2: 31–35  TE: 62–67, 68–71, 115–119, 209–214  Big Book: 10, 20–21</p>	K.N.1.8	Using the words more than, less than or equal to compare and order whole numbers, with and without objects, from 0 to 10.
<b>K.N.2 Develop conceptual fluency with addition and subtraction (up to 10) using objects and pictures.</b>		
<p><u>Volume KA:</u>  SE Part 1: 57–58  SE Part 2: 9–10, 11–15  TE: 63–67, 84–89, 90–95  Big Book: 5, 16–17, 23–24</p> <p><u>Volume KB:</u>  SE Part 1: 30–33, 34–39, 47–48, 49–50, 51–52, 56–59, 60–61  SE Part 2: 24–25, 36–37  TE: 72–76, 77–83, 110–114, 115–119, 120–125, 136–142, 143–147, 198–200, 215–218  Big Book: 11, 12, 16–19, 20–21, 22–23, 26–27, 36</p>	K.N.2.1	Compose and decompose numbers up to 10 with objects and pictures.
<b>K.N.3 Understand the relationship between whole numbers and fractions through fair share.</b>		
<p><u>Volume KB:</u>  SE Part 1: 25–27, 28–29, 49–50  SE Part 2: 31–35  TE: 62–67, 68–71, 115–119, 209–214  Big Book: 10, 20–21</p> <p>Online Lesson: 9.4a</p>	K.N.3.1	Distribute equally a set of objects into at least two smaller equal sets.
<b>K.N.4 Identify coins by name.</b>		
<p><u>Volume KB:</u>  SE Part 2: 47  TE: 236–239</p>	K.N.4.1	Identify pennies, nickels, dimes, and quarters by name.

Citations	Standard	Descriptor
<b>K.A.1 Duplicate patterns in a variety of contexts.</b>		
<p><u>Volume KA:</u>  SE Part 1: 23–25  SE Part 2: 2–4  TE: 27–30, 70–73  Big Book: 6–7, 18–19</p> <p><u>Volume KB:</u>  SE Part 2: 12–16, 17–18  TE: 180–185, 186–190  Big Book: 36–37, 38–39</p>	K.A.1.1	Sort and group up to 10 objects into a set based upon characteristics such as color, size, and shape. Explain verbally what the objects have in common.
<p><u>Volume KB:</u>  SE Part 1: 10, 53–55  TE: 18–20, 128–134  Big Book: 24–25</p> <p>Online Lesson: 13.1a, 13.1b</p>	K.A.1.2	Recognize, duplicate, complete, and extend repeating, shrinking and growing patterns involving shape, color, size, objects, sounds, movement, and other contexts.
<b>K.GM.1 Recognize and sort basic two-dimensional shapes and use them to represent real-world objects.</b>		
<p><u>Volume KB:</u>  SE Part 1: 4–6, 7–8, 9  TE: 6–10, 11–14, 15–17  Big Book: 2–3, 4–5</p>	K.GM.1.1	Recognize squares, circles, triangles, and rectangles.
<p><u>Volume KA:</u>  SE Part 2: 2–4  TE: 70–73  Big Book: 18–19</p> <p><u>Volume KB:</u>  SE Part 1: 7–8  SE Part 2: 12–16, 17–18  TE: 11–14, 180–185, 186–190  Big Book: 36–37, 38–39</p>	K.GM.1.2	Sort two-dimensional objects using characteristics such as shape, size, color, and thickness.

Citations	Standard	Descriptor
<p><u>Volume KA:</u> SE Part 2: 2–4 TE: 70–73 Big Book: 18–19</p> <p><u>Volume KB:</u> SE Part 1: 7–8 TE: 11–14</p>	K.GM.1.3	Identify attributes of two-dimensional shapes using informal and formal geometric language interchangeably.
<p><u>Volume KB:</u> SE Part 1: 9 TE: 15–17 Big Book: 4–5</p>	K.GM.1.4	Use smaller shapes to form a larger shape when there is an outline to follow.
<p><u>Volume KB:</u> SE Part 1: 9 TE: 15–17 Big Book: 4–5</p>	K.GM.1.5	Compose free-form shapes with blocks.
<p><u>Volume KA:</u> SE Part 2: 26 TE: 118–121 Big Book: 31</p> <p><u>Volume KB:</u> SE Part 2: 12–16 TE: 180–185 Big Book: 36–37</p>	K.GM.1.6	Use basic shapes and spatial reasoning to represent objects in the real world.
<b>K.GM.2 Compare and order objects according to location and measurable attributes.</b>		
<p><u>Volume KA:</u> SE Part 2: 5–6, 7, 8, 24–25, 27 TE: 74–76, 77–79, 80–82, 114–117, 122–125 Big Book: 20, 21, 22, 30, 32</p> <p><u>Volume KB:</u> SE Part 2: 2–5, 38–41 TE: 162–166, 220–225 Big Book: 30–33</p>	K.GM.2.1	Use words to compare objects according to length, size, weight, position, and location.

Citations	Standard	Descriptor
<p><u>Volume KA:</u> SE Part 2: 5–6, 7, 8 TE: 74–76, 77–79, 80–82 Big Book: 20, 21, 22</p> <p><u>Volume KB:</u> SE Part 2: 2–5, 42–44 TE: 162–166, 226–230 Big Book: 30–33</p>	K.GM.2.2	Order up to 6 objects using measurable attributes, such as length and weight.
<p><u>Volume KA:</u> SE Part 2: 2–4, 5–6, 7, 8 TE: 70–73, 74–76, 77–79, 80–82 Big Book: 18–19, 20, 21, 22</p> <p><u>Volume KB:</u> SE Part 2: 17–18 TE: 186–190 Big Book: 38–39</p>	K.GM.2.3	Sort objects into sets by more than one attribute.
<p><u>Volume KA:</u> SE Part 2: 26 TE: 118–121 Big Book: 31</p> <p><u>Volume KB:</u> SE Part 2: 42–44 TE: 226–230</p>	K.GM.2.4	Compare the number of objects needed to fill two different containers.
<b>K.GM.3 Tell time as it relates to daily life.</b>		
<p><u>Volume KA:</u> SE Part 2: 28–29 TE: 126–128</p> <p><u>Volume KB:</u> SE Part 1: 45–46 SE Part 2: 45–46 TE: 100–103, 104–107, 231–234 Big Book: 15, 44–45</p>	K.GM.3.1	Develop an awareness of simple time concepts using words such as yesterday, today, tomorrow, morning, afternoon, and night within his/her daily life.



Citations	Standard	Descriptor
<b>K.D.1 Collect, organize, and interpret categorical data.</b>		
<p><u>Volume KA:</u> SE Part 2: 2–4, 5–6, 7, 8 TE: 70–73, 74–76, 77–79, 80–82 Big Book: 18–19, 20, 21, 22</p> <p><u>Volume KB:</u> SE Part 2: 17–18 TE: 186–190 Big Book: 38–39</p>	K.D.1.1	Collect and sort information about objects and events in the environment.
<p><u>Volume KA:</u> Big Book: 20</p> <p><u>Volume KB:</u> SE Part 1: 44 TE: 94–97</p>	K.D.1.2	Use categorical data to create real-object and picture graphs.
<p><u>Volume KA:</u> Big Book: 20</p> <p><u>Volume KB:</u> SE Part 1: 44 TE: 94–98</p>	K.D.1.3	Draw conclusions from real-object and picture graphs.

**The Oklahoma Academic Standards for Mathematics  
Mathematical Actions and Processes Standards**

Citations	Standard	Descriptor
<p><u>Volume KA:</u>            SE Part 1: 4–5, 6–9, 10–12, 13–17, 18–22, 23–25, 26–29, 30–37, 38–45, 46–55, 56, 57–58            SE Part 2: 2–4, 5–6, 7, 8, 9–10, 11–15, 16–17, 21, 22–23, 24–25, 26, 28–29, 30–35, 36–39, 40–42, 43–49, 50–51            TE: 2–5, 6–10, 11–15, 16–21, 22–26, 27–30, 32–36, 37–43, 44–50, 51–58, 59–62, 63–67, 70–73, 74–76, 77–79, 80–82, 84–89, 90–95, 96–99, 106–108, 109–111, 114–117, 118–121, 122–125, 126–128, 130–137, 138–142, 143–148, 149–155, 156–160            Big Book: 2–3, 4, 5, 6–7, 8–9, 10, 11, 12–13, 14–15, 16–17, 18–19, 20, 21, 22, 23–24, 25–26, 30, 31, 33–35, 36, 37–39, 40–43</p> <p><u>Volume KB:</u>            SE Part 1: 2–3, 4–6, 7–8, 9, 10, 11, 12, 13–14, 15–17, 18–20, 21–23, 24, 25–27, 28–29, 30–33, 34–39, 47–48, 49–50, 51–52, 53–55, 56–59, 60–61, 62–65, 66–69            SE Part 2: 2–5, 6–9, 10–11, 12–16, 19–23, 24–25, 26–30, 31–35, 36–37, 38–41, 42–44, 47, 48–51            TE: 2–5, 6–10, 11–14, 15–17, 18–20, 22–26, 27–31, 32–37, 38–43, 44–49, 50–56, 57–60, 62–67, 68–71, 72–76, 77–83, 110–114, 115–119, 120–125, 128–134, 136–142, 143–147, 148–153, 154–159, 162–166, 167–172, 173–177, 180–185, 192–197, 198–200, 202–208, 209–214, 215–218, 220–225, 226–230, 236–239, 240–246            Big Book: 2–3, 4–5, 6, 7–9, 10, 11, 12, 16–19, 20–21, 22–23, 24–25, 26–27, 28–29, 30–33, 34–35, 36–37, 40–41, 42–43, 46</p>	<p>Develop a Deep and Flexible Conceptual Understanding</p>	<p>Demonstrate a deep and flexible conceptual understanding of mathematical concepts, operations, and relations while making mathematical and real-world connections. Students will develop an understanding of how and when to apply and use the mathematics they know to solve problems.</p>

Citations	Standard	Descriptor
<p><u>Volume KA:</u>  SE Part 1: 32  SE Part 2: 9–10, 13–14, 16–17, 18–20, 22–23, 28–29, 46–48  TE: 40, 84–89, 94–95, 98–99, 103–105, 109–111, 142, 154–155  Big Book: 5, 36</p> <p><u>Volume KB:</u>  SE Part 1: 14, 30–31, 34–39, 47–48, 51–52, 56–59, 60–61, 62–65, 66–69  SE Part 2: 6–7, 19–23, 24–25, 26–30, 31–35, 36–37, 48–51  TE: 25, 37, 73–75, 77–83, 111–114, 117, 122–125, 136–142, 143–147, 148–153, 156–159, 169, 171, 192–197, 198–200, 202–208, 209–214, 215–218, 240–246  Big Book: 11, 12, 18–19, 20–21, 22–23, 26–27, 40–41, 42–43, 46</p>	Develop Accurate and Appropriate Procedural Fluency	Learn efficient procedures and algorithms for computations and repeated processes based on a strong sense of numbers. Develop fluency in addition, subtraction, multiplication, and division of numbers and expressions. Students will generate a sophisticated understanding of the development and application of algorithms and procedures.
<p><u>Volume KA:</u>  SE Part 1: 57–58  SE Part 2: 9–10, 11–15, 16–17, 18–20  TE: 63–67, 84–89, 90–95, 96–99, 101–105  Big Book: 5, 16–17, 23–24, 25–26, 29, 36</p> <p><u>Volume KB:</u>  SE Part 1: 11, 12, 13–14, 15–17, 18–20, 21–23, 24, 25–27, 28–29, 30–33, 34–39, 47–48, 49–50, 51–52, 56–59, 60–61, 62–65, 66–69  SE Part 2: 24–25, 31–35, 36–37  TE: 22–26, 27–31, 32–37, 38–43, 44–49, 50–56, 57–60, 62–67, 68–71, 72–76, 77–83, 110–114, 115–119, 120–125, 136–142, 143–147, 148–153, 154–159, 198–200, 209–214, 215–218  Big Book: 6, 7–9, 10, 11, 12, 16–19, 20–21, 22–23, 26–27, 28–29</p>	Develop Strategies for Problem Solving	Analyze the parts of complex mathematical tasks and identify entry points to begin the search for a solution. Students will select from a variety of problem solving strategies and use corresponding multiple representations (verbal, physical, symbolic, pictorial, graphical, tabular) when appropriate. They will pursue solutions to various tasks from real-world situations and applications that are often interdisciplinary in nature. They will find methods to verify their answers in context and will always question the reasonableness of solutions.

Citations	Standard	Descriptor
<p><u>Volume KA:</u>  SE Part 1: 2–3, 4–5, 6–9, 10–12, 13–17, 18–22, 26–29, 30–31, 32–37, 38–45, 46–55, 56, 57–58  SE Part 2: 5–6, 8, 18–20, 22–23, 50–51  TE: 2–5, 6–10, 11–15, 16–21, 22–26, 32–36, 37–43, 44–50, 51–58, 59–62, 63–67, 74–76, 80–82, 100–105, 109–111, 156–160  Big Book: 2–3, 4, 5, 8–9, 10, 11, 12–13, 14–15, 16–17, 20, 22, 27–29, 36</p> <p><u>Volume KB:</u>  SE Part 1: 9, 10, 25–27, 28–29, 30–33, 34–39, 51–52, 53–55  SE Part 2: 24–25, 26–30, 31–35, 36–37, 38–41, 42–44, 45–46  TE: 15–17, 18–20, 62–67, 68–71, 72–76, 77–83, 120–125, 128–134, 192–197, 198–200, 202–208, 209–214, 215–218, 220–225, 226–230, 231–234  Big Book: 4–5, 10, 11, 12, 22–23, 24–25, 42–43, 44–45</p>	<p>Develop Mathematical Reasoning</p>	<p>Explore and communicate a variety of reasoning strategies to think through problems. Students will apply their logic to critique the thinking and strategies of others to develop and evaluate mathematical arguments, including making arguments and counterarguments and making connections to other contexts.</p>
<p><u>Volume KA:</u>  SE Part 1: 10–12, 13, 14–17, 46–55  SE Part 2: 2–4, 5–6, 7, 8, 9–10, 11–15, 28–29, 30–31, 32–35  TE: 11–15, 16–21, 51–58, 70–73, 74–76, 77–79, 80–82, 84–89, 90–95, 126–128, 130–137  Big Book: 4, 5, 12–13, 18–19, 20, 21, 22, 23–24, 33, 34–35</p> <p><u>Volume KB:</u>  SE Part 1: 40–42, 43, 44, 45, 46, 53–55, 62–65  SE Part 2: 2–5, 17–18  TE: 86–90, 91–93, 94–97, 100–103, 104–107, 128–134, 148–153, 162–166, 186–190  Big Book: 13, 14, 15, 20, 24–25, 30–33, 38–39</p>	<p>Develop a Productive Mathematical Disposition</p>	<p>Hold the belief that mathematics is sensible, useful and worthwhile. Students will develop the habit of looking for and making use of patterns and mathematical structures. They will persevere and become resilient, effective problem solvers.</p>

Citations	Standard	Descriptor
<p><b>Volume KA:</b>  SE Part 1: 2–5, 6–9, 10–12, 13–17, 18–22, 23–25, 26–29, 30–31, 32–37, 38–45, 46–55, 56, 57–58  SE Part 2: 9–10, 11–15, 18–20, 21, 22–23, 27, 30–35, 36–39, 40–42, 43–49, 50–51  TE: 2–5, 6–10, 11–15, 16–21, 22–26, 27–30, 32–36, 37–43, 44–50, 51–58, 59–62, 63–67, 73, 75, 84–89, 90–95, 100–105, 106–108, 109–111, 116, 122–125, 130–137, 138–142, 143–148, 149–155, 156–160  Big Book: 2–3, 4, 5, 6–7, 8–9, 10, 11, 12–13, 14–15, 16–17, 23–24, 27–29, 32, 33–35, 36, 37–39, 40–43</p> <p><b>Volume KB:</b>  SE Part 1: 2–6, 7–8, 9, 10, 11, 12, 13–14, 15–17, 18–20, 21–23, 24, 25–27, 28–29, 30–33, 34–39, 47–48, 49–50, 51–52, 53–55, 56–59, 60–61, 62–65, 66–69  SE Part 2: 6–9, 10–11, 12–16, 17–18, 19–23, 24–25, 26–30, 31–35, 36–37, 38–41, 42–44, 45–46, 47, 48–51  TE: 2–5, 6–10, 11–14, 15–17, 18–20, 22–26, 27–31, 32–37, 38–43, 44–49, 50–56, 57–60, 62–67, 68–71, 72–76, 77–83, 88, 110–114, 115–119, 120–125, 128–134, 136–142, 143–147, 148–153, 154–159, 167–172, 173–177, 180–185, 192–197, 198–200, 202–208, 209–214, 215–218, 220–225, 226–230, 236–239, 240–246  Big Book: 2–3, 4–5, 6, 7–9, 10, 11, 12, 16–19, 20–21, 22–23, 24–25, 26–27, 28–29, 34–35, 36–37, 38–39, 40–41, 42–43, 44–45, 46</p>	<p>Develop the Ability to Make Conjectures, Model, and Generalize</p>	<p>Make predictions and conjectures and draw conclusions throughout the problem solving process based on patterns and the repeated structures in mathematics. Students will create, identify, and extend patterns as a strategy for solving and making sense of problems.</p>

Citations	Standard	Descriptor
<p><u>Volume KA:</u>  SE Part 1: 2–5, 6–9, 10–12, 14–17, 20–22, 23–25, 26–29, 32–37, 38–45, 46–55, 56, 57–58  SE Part 2: 2–4, 5–6, 7, 8, 9–10, 11–15, 16–17, 18–20, 21, 22–23, 24–25, 27, 32–35, 36–39, 40–42, 43–49, 50–51  TE: 2–5, 6–10, 14–15, 16–21, 25–26, 27–30, 34–36, 40–43, 44–50, 53–58, 59–62, 66–67, 70–73, 74–76, 77–79, 80–82, 89, 91–95, 99, 100–105, 106–108, 109–111, 114–117, 122–125, 136–137, 141–142, 147–148, 152–155, 160  Big Book: 2–3, 6–7, 11, 14–15, 18–19, 20, 21, 22, 24, 27–29, 30, 32</p> <p><u>Volume KB:</u>  SE Part 1: 2–3, 4–6, 7–8, 9, 10, 11, 12, 13–14, 15–17, 18–20, 21–23, 24, 25–27, 28–29, 30–33, 34–39, 40–42, 43, 44, 45, 47–48, 49–50, 51–52, 53–55, 56–59, 60–61, 62–65, 66–69  SE Part 2: 2–5, 6–9, 10–11, 12–16, 17–18, 19–23, 24–25, 26–30, 31–35, 36–37, 38–41, 42–44, 45–46, 47, 48–51  TE: 2–5, 9–10, 11–14, 17, 18–20, 25–26, 31, 36–37, 42–43, 48–49, 55–56, 60, 62–67, 68–71, 72–76, 81–83, 86–90, 91–93, 94–97, 100–103, 114, 119, 120–125, 128–134, 141–142, 147, 152–153, 158–159, 162–166, 167–172, 173–177, 183–185, 186–190, 192–197, 200, 202–208, 209–214, 218, 224–225, 229–230, 231–234, 236–239, 240–241, 244–246  Big Book: 10, 11, 13, 14, 15, 20, 22–23, 24–25, 34–35, 38–39, 40–41, 42–43, 44–45, 46</p>	<p>Develop the Ability to Communicate Mathematically</p>	<p>Students will discuss, write, read, interpret and translate ideas and concepts mathematically. As they progress, students' ability to communicate mathematically will include their increased use of mathematical language and terms and analysis of mathematical definitions.</p>