

Houghton Mifflin *MathSteps* Level K
 correlated to
 Illinois Early Elementary Benchmarks

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<p>6.A.1a Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.</p>	<p>TE: T46–T49, T53, T55–T56, T64–T67, T68–T71, T129, 85–100, 107–110, 113–115, 117–120, 121, 123, 125–127, 131–134, 136, 141–144, 206, 243, 247–270 SB: 85–100, 107–110, 113–115, 117–120, 121, 123, 125–127, 131–134, 136, 141–144, 206, 243, 247–270</p>
<p>6.A.1b Identify and model fractions using concrete materials and pictorial representations.</p>	<p>TE: T110, T113, T122, 237–240 SB: 237–240</p>
<p>6.B.1 Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.</p>	<p>TE: T94–T97, 177–202 SB: 177–202</p>
<p>6.C.1a Select and perform computational procedures to solve problems with whole numbers.</p>	<p>TE: T94–T97, 177–202 SB: 177–202</p>
<p>6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.</p>	<p>TE: T46–T49, T58, T119, T136, 101–102, 105–106, 129–130, 139–140, 163–164, 167–168, 187–188, 201–202, 229–230, 255–256, 267–268 SB: 101–102, 105–106, 129–130, 139–140, 163–164, 167–168, 187–188, 201–202, 229–230, 255–256, 267–268</p>
<p>6.D.1 Compare the numbers of objects in groups.</p>	<p>TE: T46–T49, T150, 73–74, 109, 144, 173 SB: 73–74, 109, 144, 173</p>
<p>7.A.1a Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.</p>	<p>TE: T112–T113, T120–T121, 231–236 SB: 231–236</p>
<p>7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches (both analog and digital)).</p>	<p>TE: T110–T113, T115, T117, T128–T131, T136, 215–220, 244, 265–266, 272 SB: 215–220, 244, 265–266, 272</p>
<p>7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.</p>	<p>TE: T110–T111, T117–T118, 221–226 SB: 221–226</p>
<p>7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.</p>	<p><i>See Level 2.</i></p>
<p>7.B.1a Given a problem, describe possible methods for estimating a given measure.</p>	<p>TE: T112, T119–T121, 227–228, 231–236 SB: 227–228, 231–236</p>
<p>7.B.1b Compare estimated measures to actual</p>	<p>TE: 229–230</p>

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measures taken with appropriate measuring instruments.	SB: 229–230
7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement instruments).	<i>See Level 3.</i>
8.A.1a Identify, describe and extend simple geometric and numeric patterns.	TE: T30–T33, T39–T40, T80–T81, T89, 41–44, 61–68, 70, 130, 143, 167–168, 205 SB: 41–44, 61–68, 70, 130, 143, 167–168, 205
8.A.1b Solve simple number sentences (e.g., $2 + 3 = 5$).	TE: T94–T97, T100, 181–188, 193–198 SB: 181–188, 193–198
8.B.1 Solve problems involving pattern identification and completion of patterns.	TE: T30–T33, T39–T40, T80–T81, T89, 41–44, 61–68, 70, 130, 143, 167–168, 205 SB: 41–44, 61–68, 70, 130, 143, 167–168, 205
8.C.1 Describe the basic arithmetic operations (addition, subtraction, multiplication, division) orally, in writing and using concrete materials and drawings.	TE: T94–T98, 188, 190, 199–202 SB: 188, 190, 199–202
8.D.1 Find the unknown numbers in whole-number addition, subtraction, multiplication and division situations.	<i>See Level 1.</i>
9.A.1a Identify related two- and three-dimensional shapes including circle-sphere, square-cube, triangle-pyramid, rectangle-rectangular prism and their basic properties.	TE: T34–T35, 3–20, 63–66 SB: 3–20, 63–66
9.A.1b Draw two-dimensional shapes.	TE: T34–T35, 3–20 SB: 3–20
9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.	TE: T34–T35, 3–20 SB: 3–20
9.B.1b Sort, classify and compare familiar shapes.	TE: T34–T35, 3–20, 63–66 SB: 3–20, 63–66
9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.	<i>See Level 1.</i>
9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology.	TE: 10, 18, 20 SB: 10, 18, 20

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<p>10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.</p>	<p>TE: T46–T49, T57, T64–T67, T75, T80–T83 T88, T128–T131, 103–104, 107–110, 139–140, 163–166, 172, 255–256, 270 SB: 103–104, 107–110, 139–140, 163–166, 172, 255–256, 270</p>
<p>10.A.1b Answer questions and make predictions based on given data.</p>	<p>TE: T46–T49, T57, T64–T67, T75, T80–T83 T88, T128–T131, 103–104, 107–110, 139–140, 163–166, 172, 255–256, 270 SB: 103–104, 107–110, 139–140, 163–166, 172, 255–256, 270</p>
<p>10.B.1a Formulate questions of interest and design surveys or experiments to gather data.</p>	<p>TE: T80–T83, T88, 165 SB: 165</p>
<p>10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.</p>	<p>TE: T80–T83, T88, 163–166, 172 SB: 163–166, 172</p>
<p>10.B.1c Analyze data, draw conclusions and communicate the results.</p>	<p>TE: T80–T83, T88, 163–166, 172 SB: 163–166, 172</p>
<p>10.C.1a Describe the concept of probability in relationship to likelihood and chance.</p>	<p>TE: See Level 1 SB: See Level 1</p>
<p>10.C.1b Systematically list all possible outcomes of a simple one-stage experiment (e.g., the flip of one coin, the toss of one die, the spin of a spinner).</p>	<p><i>See Level 1.</i></p>

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<p>6.A.1a Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.</p>	<p>TE: T16–T19, T21–T22, T30–T34, T38–T39, T65, T100–T104, 9–10, 29–30, 41–42, 45–52, 61, 63, 101–102, 112, 167–186, 195–196, 229–240, 286, 292, 298 SB: 9–10, 29–30, 41–42, 45–52, 61, 63, 101–102, 112, 167–186, 195–196, 229–240, 286, 292, 298</p>
<p>6.A.1b Identify and model fractions using concrete materials and pictorial representations.</p>	<p>TE: T150–T151, 253–260, 307 SB: 253–260, 307</p>
<p>6.B.1 Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.</p>	<p>There are many opportunities for students to solve one- and two-step problems. These are a few of the many examples. TE: 70–72, 76, 78, 88, 98, 100, 124, 126, 132, 140, 150, 186, 242, 244, 245–246 SB: 70–72, 76, 78, 88, 98, 100, 124, 126, 132, 140, 150, 186, 242, 244, 245–246</p>
<p>6.C.1a Select and perform computational procedures to solve problems with whole numbers.</p>	<p>There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: 67–69, 77–78, 98, 100, 129–130, 140, 142, 144, 146, 148, 154, 243–244, 299–300 SB: 67–69, 77–78, 98, 100, 129–130, 140, 142, 144, 146, 148, 154, 243–244, 299–300</p>
<p>6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.</p>	<p>TE: T93, 31–32, 59–60, 71–72, 85–86, 121–122, 129–130, 153–154, 159–160, 189–190, 193–194, 209–210, 221–222, 243–244, 245–245, 263–264, 269–272, 299–300, 303–304 SB: 31–32, 59–60, 71–72, 85–86, 121–122, 129–130, 153–154, 159–160, 189–190, 193–194, 209–210, 221–222, 243–244, 245–245, 263–264, 269–272, 299–300, 303–304</p>
<p>6.D.1 Compare the numbers of objects in groups.</p>	<p>TE: 29–32, 42, 51, 87–88, 107–108, 167–179 SB: 29–32, 42, 51, 87–88, 107–108, 167–179</p>
<p>7.A.1a Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.</p>	<p>TE: T146–T149, T154, T152, 261–262, 265–270, 272, 274 SB: 261–262, 265–270, 272, 274</p>
<p>7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches (both analog and digital)).</p>	<p>TE: T116–T119, T121–T123, 202–208, 211–212 SB: 202–208, 211–212</p>

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<p>7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.</p>	<p>TE: T116–T119, T124–T125, 109–110, 131–132, 157–158, 213–222, 241–242, 299 SB: 109–110, 131–132, 157–158, 213–222, 241–242, 299</p>
<p>7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.</p>	<p><i>See Level 2.</i></p>
<p>7.B.1a Given a problem, describe possible methods for estimating a given measure.</p>	<p>TE: T146–T149, T154, T152, 271, 273–274 SB: 271, 273–274</p>
<p>7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments.</p>	<p><i>See Level 2.</i></p>
<p>7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement instruments).</p>	<p><i>See Level 3.</i></p>
<p>8.A.1a Identify, describe and extend simple geometric and numeric patterns.</p>	<p>TE: T16–T19, T23, T100–T103, T111, 15–16, 46, 115–120, 123–126, 137–144, 181–182, 184, 186–188, 193–194, 245–246, 281–285, 287–291, 293–297, 301 SB: 15–16, 46, 115–120, 123–126, 137–144, 181–182, 184, 186–188, 193–194, 245–246, 281–285, 287–291, 293–297, 301</p>
<p>8.A.1b Solve simple number sentences (e.g., $2 + 0 = 5$).</p>	<p>TE: T46–T49, T51, T60–T63, T66, 69–74, 79, 81–82, 97–98, 101–106, 115, 117–119, 123, 125–126, 130, 137, 139–150, 281, 285–287, 291–293, 297–298, 301 SB: 69–74, 79, 81–82, 97–98, 101–106, 115, 117–119, 123, 125–126, 130, 137, 139–150, 281, 285–287, 291–293, 297–298, 301</p>
<p>8.B.1 Solve problems involving pattern identification and completion of patterns.</p>	<p>TE: T16–T19, T23, T100–T103, T111, 15–16, 46, 115–120, 123–126, 137–144, 181–182, 184, 186–188, 193–194, 245–246, 281–285, 287–291, 293–297, 301 SB: 15–16, 46, 115–120, 123–126, 137–144, 181–182, 184, 186–188, 193–194, 245–246, 281–285, 287–291, 293–297, 301</p>
<p>8.C.1 Describe the basic arithmetic operations (addition, subtraction, multiplication, division) orally, in writing and using concrete materials and drawings.</p>	<p>TE: 70–72, 74, 76, 78, 80, 84, 90, 98, 100, 103–104, 106, 110, 116, 118, 120, 124, 128, 140, 142, 148, 152, 232, 236, 238, 286, 292 SB: 70–72, 74, 76, 78, 80, 84, 90, 98, 100, 103–104, 106, 110, 116, 118, 120, 124, 128, 140, 142, 148, 152, 232, 236, 238, 286, 292</p>

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<p>8.D.1 Find the unknown numbers in whole-number addition, subtraction, multiplication and division situations.</p>	<p>TE: T46–T49, T54, T86–T89, T93, 87–88, 149–150 SB: 87–88, 149–150</p>
<p>9.A.1a Identify related two- and three-dimensional shapes including circle-sphere, square-cube, triangle-pyramid, rectangle-rectangular prism and their basic properties.</p>	<p>TE: T16–T19, T20–T24, 3–8 SB: 3–8</p>
<p>9.A.1b Draw two-dimensional shapes.</p>	<p>TE: T16–T19, T20–T24, 11–14 SB: 11–14</p>
<p>9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.</p>	<p>TE: T16–T19, T20–T24, 3–18 SB: 3–18</p>
<p>9.B.1b Sort, classify and compare familiar shapes.</p>	<p>TE: T16–T19, T22, 3–18 SB: 3–18</p>
<p>9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.</p>	<p>TE: T16–T19, T23, 17–18 SB: 17–18</p>
<p>9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology.</p>	<p>TE: T16–T19, T20–T24, 4, 6, 8, 10, 12, 18 SB: 4, 6, 8, 10, 12, 18</p>
<p>10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.</p>	<p>TE: T16–T19, T30–T34, T141–T41, T46–T49, T72–TR75, T60–T63, T169, 19–20, 31–32, 55–60, 85–86, 107–108, 121–122, 153–154, 162, 189–190, 209–210, 224, 245–246, 303–304 SB: 19–20, 31–32, 55–60, 85–86, 107–108, 121–122, 153–154, 162, 189–190, 209–210, 224, 245–246, 303–304</p>
<p>10.A.1b Answer questions and make predictions based on given data.</p>	<p>TE: T16–T19, T30–T34, T141–T41, T46–T49, T72–TR75, T60–T63, T169, 19–20, 31–32, 55–60, 85–86, 107–108, 121–122, 153–154, 162, 189–190, 209–210, 224, 245–246, 303–304 SB: 19–20, 31–32, 55–60, 85–86, 107–108, 121–122, 153–154, 162, 189–190, 209–210, 224, 245–246, 303–304</p>
<p>10.B.1a Formulate questions of interest and design surveys or experiments to gather data.</p>	<p>TE: T30–T33, T40, 55–56 SB: 55–56</p>
<p>10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or</p>	<p>TE: T30–T33, T40–T41, 55–60 SB: 55–60</p>

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bar graphs. 10.B.1c Analyze data, draw conclusions and communicate the results.	TE: T30–T33, T40–T41, 42, 48, 56–57, 59, 153, 157, 209–210, 245–246, 263–264 SB: 42, 48, 56–57, 59, 153, 157, 209–210, 245–246, 263–264
10.C.1a Describe the concept of probability in relationship to likelihood and chance.	TE: T30–T33, T41, 57–58 SB: 57–58
10.C.1b Systematically list all possible outcomes of a simple one-stage experiment (e.g., the flip of one coin, the toss of one die, the spin of a spinner).	TE: T30–T33, T41, 57–58 SB: 57–58

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<p>6.A.1a Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.</p>	<p>TE: T18–T21, T27, T34–T37, T39, T146–T149, T151, 17, 23–26, 37–42, 59–60, 79–80, 226, 251–264, 294 SB: 17, 23–26, 37–42, 59–60, 79–80, 226, 251–264, 294</p>
<p>6.A.1b Identify and model fractions using concrete materials and pictorial representations.</p>	<p>TE: T62–T65, T68–T69, 103–108 SB: 103–108</p>
<p>6.B.1 Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.</p>	<p>There are many opportunities for students to solve one- and two-step problems. These are a few of the many examples. TE: 68, 71, 75, 86, 172, 174, 178, 188, 264, 282, 286, 288 SB: 68, 71, 75, 86, 172, 174, 178, 188, 264, 282, 286, 288</p>
<p>6.C.1a Select and perform computational procedures to solve problems with whole numbers.</p>	<p>There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: 11–12, 27–28, 47–48, 55–56, 85–86, 180, 188, 190, 193–194, 288 SB: 11–12, 27–28, 47–48, 55–56, 85–86, 180, 188, 190, 193–194, 288</p>
<p>6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.</p>	<p>TE: T34–T37, T40, T43, T97, 11–12, 27–28, 47–48, 53–54, 60, 71–72, 85–86, 119–120, 123–124, 137–138, 159–160, 161–162, 167–168, 183–184, 189–190, 193–194, 239–240, 243–244, 265–266, 273–274, 289–290, 291–292, 308 SB: 11–12, 27–28, 47–48, 53–54, 60, 71–72, 85–86, 119–120, 123–124, 137–138, 159–160, 161–162, 167–168, 183–184, 189–190, 193–194, 239–240, 243–244, 265–266, 273–274, 289–290, 291–292, 308</p>
<p>6.D.1 Compare the numbers of objects in groups.</p>	<p>TE: 13, 17–18, 79–80, 107–108, 297–306, 310–311, 313–318, 321–322 SB: 13, 17–18, 79–80, 297–306, 310–311, 313–318, 321–322</p>
<p>7.A.1a Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.</p>	<p>TE: T74–T82, 117–118, 121–122, 128–130 SB: 121–122, 128–130</p>
<p>7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches, both analog and digital).</p>	<p>TE: T118–T125, 199–214, 213–214, 276, 308 SB: 199–214, 213–214, 276, 308</p>

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<p>7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.</p>	<p>TE: T88–T94, T96, T118–T121, T126–128, T162–T165, T168, 155–156, 177–178, 215–221, 255–256, 287–288, 291–292 SB: 155–156, 177–178, 215–221, 255–256, 287–288, 291–292</p>
<p>7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.</p>	<p>TE: T74–T77, T82, 129–130 SB: 129–130</p>
<p>7.B.1a Given a problem, describe possible methods for estimating a given measure.</p>	<p>TE: T74–T78, 115, 116, 118, 123–124, 125–128 SB: 115, 116, 118, 123–124, 125–128</p>
<p>7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments.</p>	<p>TE: 115–116, 121 SB: 115–116, 121</p>
<p>7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement instruments).</p>	<p><i>See Level 3.</i></p>
<p>8.A.1a Identify, describe and extend simple geometric and numeric patterns.</p>	<p>TE: T41, T146–T149, T153, 29–30, 45–46, 49–50, 83–84, 137–138, 168, 249, 251, 254–259, 260, 263, 265–266, 297–300, 312 SB: 29–30, 45–46, 49–50, 83–84, 137–138, 168, 249, 251, 254–259, 260, 263, 265–266, 297–300, 312</p>
<p>8.A.1b Solve simple number sentences (e.g., $2 + 0 = 5$).</p>	<p>TE: T56, 4–5, 7, 9, 13–15, 17–18, 27–28, 53–54, 65, 67–69, 73–74, 77, 79, 83–84, 137–138, 153, 167–168, 183–184, 191–192, 239–240, 252, 299–300, 305–306, 313–314, 319 SB: 4–5, 7, 9, 13–15, 17–18, 27–28, 53–54, 65, 67–69, 73–74, 77, 79, 83–84, 137–138, 153, 167–168, 183–184, 191–192, 239–240, 252, 299–300, 305–306, 313–314, 319</p>
<p>8.B.1 Solve problems involving pattern identification and completion of patterns.</p>	<p>TE: T41, T146–T149, T153, 29–30, 45–46, 49–50, 83–84, 137–138, 168, 249, 251, 254–259, 260, 263, 265–266, 297–300, 312 SB: 29–30, 45–46, 49–50, 83–84, 137–138, 168, 249, 251, 254–259, 260, 263, 265–266, 297–300, 312</p>
<p>8.C.1 Describe the basic arithmetic operations (addition, subtraction, multiplication, division) orally, in writing and using concrete materials and drawings.</p>	<p>TE: T18–T28, T46–T56, T48–T51, T54, T62–T65, T69, T147–T177, 4, 11, 13–14, 16, 18, 22, 70, 79–80, 138, 168, 190, 302, 304, 306, 308, 310, 314, 322, 324 SB: 4, 11, 13–14, 16, 18, 22, 70, 79–80, 138, 168, 190, 302, 304, 306, 308, 310, 314, 322, 324</p>

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8.D.1 Find the unknown numbers in whole-number addition, subtraction, multiplication and division situations.	TE: T18–T21, T23, T174–T177, T183, 9–10, 15–16, 20, 67, 69–70, 74, 77–78, 80, 82, 87, 153, 315–316, 320 SB: 9–10, 15–16, 20, 67, 69–70, 74, 77–78, 80, 82, 87, 153, 315–316, 320
9.A.1a Identify related two- and three-dimensional shapes including circle-sphere, square-cube, triangle-pyramid, rectangle-rectangular prism and their basic properties.	TE: T62–T68, 93–102 SB: 93–102
9.A.1b Draw two-dimensional shapes.	TE: T62–T68, 95, 100 SB: 95, 100
9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.	TE: T62–T68, 93–102 SB: 93–102
9.B.1b Sort, classify and compare familiar shapes.	TE: T62–T68, 93–102 SB: 93–102
9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.	TE: T62–T65, T67, 98–100 SB: 98–100
9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology.	TE: T62–T68, 94, 99–100 SB: 94, 99–100
10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.	TE: T34–T37, T41, T48–T51, T55, T134–T139, 45–46, 51–54, 81, 89, 109, 115, 121, 128, 183–184, 195, 231–232, 233–240, 243–245, 254–259, 262, 313–314 SB: 45–46, 51–54, 81, 89, 109, 115, 121, 128, 183–184, 195, 231–232, 233–240, 243–245, 254–259, 262, 313–314
10.A.1b Answer questions and make predictions based on given data.	TE: T34–T37, T41, T48–T51, T55, T134–T139, 45–46, 51–54, 81, 89, 109, 115, 121, 128, 183–184, 195, 231–232, 233–240, 243–245, 254–259, 262, 313–314 SB: 45–46, 51–54, 81, 89, 109, 115, 121, 128, 183–184, 195, 231–232, 233–240, 243–245, 254–259, 262, 313–314
10.B.1a Formulate questions of interest and design surveys or experiments to gather data.	TE: T134–T138, 233–244 SB: 233–244
10.B.1b Collect, organize and describe data	TE: T134–T138, 51–52, 231–236, 243–244

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using pictures, tallies, tables, charts or bar graphs.	SB: 51–52, 231–236, 243–244
10.B.1c Analyze data, draw conclusions and communicate the results.	TE: T134–T138, 51–52, 231–236, 243–244 SB: 51–52, 231–236, 243–244
10.C.1a Describe the concept of probability in relationship to likelihood and chance.	TE: T134–T137, T141, 241–244 SB: 241–244
10.C.1b Systematically list all possible outcomes of a simple one-stage experiment (e.g., the flip of one coin, the toss of one die, the spin of a spinner).	TE: T134–T137, T141, 241–244 SB: 241–244

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<p>6.A.1a Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.</p>	<p>TE: T16–T219, T20–T21, T102–T105, T158–T161, T163, 3–10, 37–44, 47–57–58, 65–74, 75–76, 81, 99, 115–123, 175–176, 223–232, 239–240, 285–286 SB: 3–10, 37–44, 47–57–58, 65–74, 75–76, 81, 99, 115–123, 175–176, 223–232, 239–240, 285–286</p>
<p>6.A.1b Identify and model fractions using concrete materials and pictorial representations.</p>	<p>TE: T102–T110, 173–182, 185–188 SB: 173–182, 185–188</p>
<p>6.B.1 Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.</p>	<p>There are many opportunities for students to solve one- and two-step problems. These are a few of the many examples. TE: 38, 40, 56, 58, 70, 72, 76, 92, 94, 118, 122, 134, 188 200, 206, 216, 228 SB 38, 40, 56, 58, 70, 72, 76, 92, 94, 118, 122, 134, 188 200, 206, 216, 228</p>
<p>6.C.1a Select and perform computational procedures to solve problems with whole numbers.</p>	<p>There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: 45–46, 59–60, 77–78, 83–84, 95–96, 105–106, 129–131, 137–138, 198, 213–214, 223–224, 241–242 SB: 45–46, 59–60, 77–78, 83–84, 95–96, 105–106, 129–131, 137–138, 198, 213–214, 223–224, 241–242</p>
<p>6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.</p>	<p>TE: T32–T35, T40, T46–T49, T53, 11–12, 21–22, 46–46, 53–54, 59–60, 75–76, 79–80, 83–84, 103–104, 109–110, 118, 124, 127–129, 132, 137–138, 201–202, 209–210, 215–216, 237–238, 245–246, 257 SB: 11–12, 21–22, 46–46, 53–54, 59–60, 75–76, 79–80, 83–84, 103–104, 109–110, 118, 124, 127–129, 132, 137–138, 201–202, 209–210, 215–216, 237–238, 245–246, 257</p>
<p>6.D.1 Compare the numbers of objects in groups.</p>	<p>TE: 89–91, 97–98, 100, 105, 107, 115–117, 120, 123, 125–126, 129, 130, 133, 197, 199, 203, 205, 211–214, 227–231 SB: 89–91, 97–98, 100, 105, 107, 115–117, 120, 123, 125–126, 129, 130, 133, 197, 199, 203, 205, 211–214, 227–231</p>
<p>7.A.1a Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary</p>	<p>TE: T144–T153, 251, 255, 256, 259, 263, 265 SB: 251, 255, 256, 259, 263, 265</p>

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and metric systems.	
7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches, both analog and digital).	TE: T16–T19, T25–T26, 23–30, 60, 104 SB: 23–30, 60, 104
7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.	TE: T16–T19, T23, T32–T35, T40, T158–T161, 5–6, 9–10, 15–18, 19–20, 45–46, 55–56, 59–60, 74, 75–76, 84, 108, 110, 124, 128, 136, 138, 184, 200, 202, 210, 224, 226, 228, 230, 232, 234, 236, 238, 240, 244, 246, 292, 293–294, 295–296 SB: 5–6, 9–10, 15–18, 19–20, 45–46, 55–56, 59–60, 74, 75–76, 84, 108, 110, 124, 128, 136, 138, 184, 200, 202, 210, 224, 226, 228, 230, 232, 234, 236, 238, 240, 244, 246, 292, 293–294, 295–296
7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.	TE: T144–T147, T149, T151, 255–256, 263–264 SB: 255–256, 263–264
7.B.1a Given a problem, describe possible methods for estimating a given measure.	TE: T144–T147, T149, T150, 253, 257–258, 260–262, 264 SB: 253, 257–258, 260–262, 264
7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments.	TE: 260 SB: 260
7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement instruments).	TE: T144–T147, T151, 265–268 SB: 265–268
8.A.1a Identify, describe and extend simple geometric and numeric patterns.	TE: T16–T19, T22, T60–T663, T65, 10, 11–12, 22, 32, 48, 49–51, 95–96, 104, 107, 157–158, 197, 203, 206, 224, 268, 280, 286 SB: 10, 11–12, 22, 32, 48, 49–51, 95–96, 104, 107, 157–158, 197, 203, 206, 224, 268, 280, 286
8.A.1b Solve simple number sentences (e.g., $2 + 0 = 5$).	TE: T60–T64, T66, 20, 38, 89–90, 94, 98, 100–102, 105–108, 112, 197, 206, 209–210, 212, 213, 215, 262, 282 SB: 20, 38, 89–90, 94, 98, 100–102, 105–108, 112, 197, 206, 209–210, 212, 213, 215, 262, 282
8.B.1 Solve problems involving pattern identification and completion of patterns.	TE: T16–T19, T22, T60–T663, T65, 10, 11–12, 22, 32, 48, 49–51, 95–96, 104, 107, 157–158, 197, 203, 206, 224, 268, 280, 286 SB: 10, 11–12, 22, 32, 48, 49–51, 95–96, 104,

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<p>8.C.1 Describe the basic arithmetic operations (addition, subtraction, multiplication, division) orally, in writing and using concrete materials and drawings.</p>	<p>107, 157–158, 197, 203, 206, 224, 268, 280, 286</p> <p>TE: T32–T35, T36–T41, T46–T54, T74–T77, T116–T119, T130–T139, T158–T161, 37–41, 43–44, 47, 57, 65, 67, 69–71, 73–74, 81, 89–98, 100, 105–107, 115–117, 119, 121, 123–125, 185–186, 197–199, 203, 205, 211–214, 223, 225, 227, 229, 231, 239–241, 243</p> <p>SB: 37–41, 43–44, 47, 57, 65, 67, 69–71, 73–74, 81, 89–98, 100, 105–107, 115–117, 119, 121, 123–125, 185–186, 197–199, 203, 205, 211–214, 223, 225, 227, 229, 231, 239–241, 243</p>
<p>8.D.1 Find the unknown numbers in whole-number addition, subtraction, multiplication and division situations.</p>	<p>TE: T116–T119, T121, 7, 76, 92, 101–102, 105–106, 116–120, 122, 125–126, 129–132, 133–134, 206–208</p> <p>SB: 7, 76, 92, 101–102, 105–106, 116–120, 122, 125–126, 129–132, 133–134, 206–208</p>
<p>9.A.1a Identify related two- and three-dimensional shapes including circle-sphere, square-cube, triangle-pyramid, rectangle-rectangular prism and their basic properties.</p>	<p>TE: T88–T95, 143–152, 155–156, 160, 265–268</p> <p>SB: 143–152, 155–156, 160, 265–268</p>
<p>9.A.1b Draw two-dimensional shapes.</p>	<p>TE: T88–T95, 144, 146, 147, 150, 152, 156</p> <p>SB: 144, 146, 147, 150, 152, 156</p>
<p>9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.</p>	<p>TE: T88–T95, 143–152, 155–156, 160, 265–268</p> <p>SB: 143–152, 155–156, 160, 265–268</p>
<p>9.B.1b Sort, classify and compare familiar shapes.</p>	<p>TE: T88–T95, 143–152, 155–156, 160, 265–268</p> <p>SB: 143–152, 155–156, 160, 265–268</p>
<p>9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.</p>	<p>TE: 152</p> <p>SB: 152</p>
<p>9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology.</p>	<p>TE: T88–T95, 143–152, 155–156, 160, 265–268</p> <p>SB: 143–152, 155–156, 160, 265–268</p>
<p>10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.</p>	<p>TE: T16–T19, T24, T88–T91, T96, T116–T119, T121, T130–T132, T32–T35, T38, T602–T63, 21–22, 33, 45–46, 58, 62, 109–110, 111, 135, 161–162, 180, 201–202, 237–238, 256, 264, 286</p>

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<p>10.A.1b Answer questions and make predictions based on given data.</p>	<p>SB: 21–22, 33, 45–46, 58, 62, 109–110, 111, 135, 161–162, 180, 201–202, 237–238, 256, 264, 286</p> <p>TE: T16–T19, T24, T88–T91, T96, 33, 135, 161–162, 165–166, 201–202, 237–238, 286</p> <p>SB: 33, 135, 161–162, 165–166, 201–202, 237–238, 286</p>
<p>10.B.1a Formulate questions of interest and design surveys or experiments to gather data.</p>	<p>TE: T88–T91, T96, 161–162</p> <p>SB: 161–162</p>
<p>10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.</p>	<p>TE: T88–T91, T96, 161–162</p> <p>SB: 161–162</p>
<p>10.B.1c Analyze data, draw conclusions and communicate the results.</p>	<p>TE: T16–T19, T24, T88–T91, T96, 33, 135, 161–162, 165–166, 201–202, 237–238, 286</p> <p>SB: 33, 135, 161–162, 165–166, 201–202, 237–238, 286</p>
<p>10.C.1a Describe the concept of probability in relationship to likelihood and chance.</p>	<p>TE: T88–T91, T96–T97, 161–166</p> <p>SB: 161–166</p>
<p>10.C.1b Systematically list all possible outcomes of a simple one-stage experiment (e.g., the flip of one coin, the toss of one die, the spin of a spinner).</p>	<p>TE: T88–T91, T96–T97, 161–166</p> <p>SB: 161–166</p>

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<p>6.A.2 Compare and order whole numbers, fractions and decimals using concrete materials, drawings and mathematical symbols.</p>	<p>TE: T16-T19, T20, T72-T75, T77, T118-T121, T123, T28-T31, T36, 5-6, 22, 37-38, 40, 66, 78, 90, 117-118, 119-200, 217-218 SB: 5-6, 22, 37-38, 40, 66, 78, 90, 117-118, 119-200, 217-218</p>
<p>6.B.2 Solve one- and two-step problems involving whole numbers, fractions and decimals using addition, subtraction, multiplication and division.</p>	<p>There are many opportunities for students to solve one- and two-step problems. These are a few of the many examples. TE: 9, 10, 16, 24, 28, 34, 41-42, 50, 60, 214, 220, 226, 239, 242 SB: 9, 10, 16, 24, 28, 34, 41-42, 50, 60, 214, 220, 226, 239, 242</p>
<p>6.C.2a Select and perform computational procedures to solve problems with whole numbers, fractions and decimals.</p>	<p>There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: 9, 10, 16, 24, 28, 34, 41-42, 50, 60, 93-94, 214, 220, 226, 239, 242 SB: 9, 10, 16, 24, 28, 34, 41-42, 50, 60, 93-94, 214, 220, 226, 239, 242</p>
<p>6.C.2b Show evidence that computational results using whole numbers, fractions and decimals are correct and/or that estimates are reasonable.</p>	<p>TE: T28-T31, T32-T35, 9-10, 15-16, 27-30, 41-42, 50, 57-58, 61-62, 67-70, 93-94, 101-102, 129-130, 135-136, 149-150, 167-168, 183-184, 194-195, 219-220, 224, 229-230, 235-240, 242-256, 266-267, 277-278, 291-292, 303-304 SB: T28-T31, T32-T35, 9-10, 15-16, 27-30, 41-42, 50, 57-58, 61-62, 67-70, 93-94, 101-102, 129-130, 135-136, 149-150, 167-168, 183-184, 194-195, 219-220, 224, 229-230, 235-240, 242-256, 266-267, 277-278, 291-292, 303-304</p>
<p>6.D.2 Describe the relationship between two sets of data using ratios and appropriate notations (e.g., a/b, a to b, a:b).</p>	<p>TE: 114-116, 124, 273-274, 276 SB: 114-116, 124, 273-274, 276</p>
<p>7.A.2a Calculate, compare and convert length, perimeter, area, weight/mass and volume within the customary and metric systems.</p>	<p>TE: T102-T113, 60, 62, 106, 124, 128, 130-132, 136, 214, 175-180, 185-190, 196-206, 220, 226, 247-248, 250, 293-294, 303, 304 SB: 60, 62, 106, 124, 128, 130-132, 136, 214, 175-180, 185-190, 196-206, 220, 226, 247-248, 250, 293-294, 303, 304</p>
<p>7.A.2b Solve addition, subtraction, multiplication and division problems using currency.</p>	<p>TE: T28-T31, T36, T42-T47, T51, T56-T59, T63, 34, 38-42, 49-50, 52-55, 57-58, 62, 66, 68, 70, 84, 86, 91-94, 96, 102, 130, 220, 224, 228, 248, 256, 304</p>

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	SB: 34, 38–42, 49–50, 52–55, 57–58, 62, 66, 68, 70, 84, 86, 91–94, 96, 102, 130, 220, 224, 228, 248, 256, 304
7.B.2a Determine and communicate possible methods for estimating a given measure, selecting proper units in both customary and metric systems.	TE: T102–T113, 177–181, 188, 191 SB: 177–181, 188, 191
7.B.2b Estimate conversions between measures within the customary and metric systems.	TE: T102–T113, 176–180, 188–190 SB: 176–180, 188–190
7.C.2a Describe relationships in a simple scale drawing.	<i>See Level 5.</i>
7.C.2b Construct or draw figures with given perimeters and areas.	TE: 204 SB: 204
8.A.2a Identify, describe, extend and create geometric and numeric patterns.	TE: T159–T161, 15–16, 25–26, 47–48, 59–60, 63, 95–96, 114, 164, 219–220, 256 SB: 15–16, 25–26, 47–48, 59–60, 63, 95–96, 114, 164, 219–220, 256
8.A.2b Construct and solve number sentences using a variable to represent an unknown quantity.	TE: T159–161, T163, 25–28, 48, 52, 285–286, 289–75–76, 292 SB: 25–28, 48, 52, 285–286, 289–75–76, 292
8.B.2 Analyze a geometric pattern and express the results numerically.	TE: T159–T161, 196–206, 299–302 SB: 196–206, 299–302
8.C.2 Explain operations and number properties including commutative, associative, distributive, transitive, zero, equality and order of operations.	TE: T28–T32, T42–T45, T56–T60, 21–23, 47–48, 77–78 SB: 21–23, 47–48, 77–78
8.D.2 Solve linear equations involving whole numbers.	TE: T28–T31, T33, 287–294, 298–302 SB: 287–294, 298–302
9.A.2a Build physical models of two- and three-dimensional shapes.	TE: 149–150, 152, 165–166 SB: 149–150, 152, 165–166
9.A.2b Identify and describe how geometric figures are used in practical settings (e.g., construction, art, advertising).	TE: 167–168, 204, 206 SB: 167–168, 204, 206
9.A.2c Describe and draw representations of geometric relationships, patterns, symmetries, and designs in two- and three-dimensions with and without technology.	TE: T88–T91, T92–T97, 141–143, 152–153, 155, 158, 165–166, 206 SB: 141–143, 152–153, 155, 158, 165–166, 206
9.B.2 Compare geometric figures and determine	TE: T88–T91, T92–T93, 141–143, 147–149,

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<p>their properties including parallel, perpendicular, similar, congruent and line symmetry.</p>	<p>155–156, 159–160 SB: 141–143, 147–149, 155–156, 159–160</p>
<p>9.C.2 Formulate logical arguments about geometric figures and patterns and communicate reasoning.</p>	<p>TE: 146, 152, 156, 158,160, 163, 166 SB: 146, 152, 156, 158,160, 163, 166</p>
<p>10.A.2a Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.</p>	<p>TE: T16–T19, T88–T91, T97, T102–T105, T146–T149, 9–10, 69–70, 135–136, 167–168, 183–184, 187, 194–195, 261–262, 266–267, 268–270, 272, 289–290, 293–302 SB: 9–10, 69–70, 135–136, 167–168, 183–184, 187, 194–195, 261–262, 266–267, 268–270, 272, 289–290, 293–302</p>
<p>10.A.2b Using a data set, determine mean, median, mode and range, with and without the use of technology.</p>	<p>TE: T146–T149, T150, 103–104, 263–265 SB: 103–104, 263–265</p>
<p>10.A.2c Make predictions and decisions based on data and communicate their reasoning.</p>	<p>TE: T146–T149, 150–T153, 9–10, 69–70, 167–168, 271–278 SB: 9–10, 69–70, 167–168, 271–278</p>
<p>10.B.2a Formulate questions of interest and select methods to systematically collect data.</p>	<p>TE: T149–T150, 261–262 SB: 261–262</p>
<p>10.B.2b Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and- leaf graphs.</p>	<p>TE: T16–T19, T88–T91, T97, T102–T105, T146–T149, 9–10, 69–70, 135–136, 167–168, 183–184, 187, 194–195, 261–262, 266–267, 268–270, 272, 289–290, 293–302 SB: 9–10, 69–70, 135–136, 167–168, 183–184, 187, 194–195, 261–262, 266–267, 268–270, 272, 289–290, 293–302</p>
<p>10.B.2c Analyze the data using mean, median, mode and range, as appropriate, with or without the use of technology.</p>	<p>TE: T146–T149, T150, 263–265 SB: 263–265</p>
<p>10.B.2d Interpret results or make relevant decisions based on the data gathered.</p>	<p>TE: T149–T150, 261–262, 271–274 SB: 261–262, 271–274</p>
<p>10.C.2a Calculate the probability of a simple event.</p>	<p>TE: T146–T149, T150–T153, 271–274 SB: 271–274</p>
<p>10.C.2b Compare the likelihood of events in terms of certain, more likely, less likely or impossible.</p>	<p>TE: T146–T149, T150–T153, 271–274 SB: 271–274</p>
<p>10.C.2c Determine the probability of an event involving "and", "or" or "not".</p>	<p>TE: T146–T149, T150–T153, 271–274 SB: 271–274</p>

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