

MEASUREMENT

| GRADE | CONTENT | SKILLS | LESSON CORRELATION |
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| Essential Question: How does measurement help us discover God's creative design? | | Big Idea: Measurement allows us to accurately describe the things that God has created. | |
| K | Measurement | <p>K.M.1 Describe and compare measurable attributes of objects, such as length or weight (K.MD.1.2) A. Solve problems by measuring length B. Solve problems by measuring weight C. Solve problems by comparing length D. Solve problems by comparing weight 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring length Solve problems by measuring weight Solve problems by comparing length Solve problems by comparing weight <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring length Solve problems by measuring weight Solve problems by comparing length Solve problems by comparing weight Solve problems by measuring with a non-standard unit <p>K.M.2 Understand that thermometers are used to measure temperature A. Solve problems by recognizing thermometers as tools to measure temperature 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems using thermometers to measure temperature <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems using thermometers to measure temperature Solve problems by recognizing thermometers as a tool to measure temperature | <p>13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7</p> <p>This is not covered in Big Ideas Math: Modeling Real Life, Grade K, © 2019. It is covered in Additional Topic: Temperature: Understanding Temperatures.</p> |
| | Time | <p>K.M.3 Order a sequence of events by time (e.g., before, after, morning, night, seasons) A. Solve problems by ordering a sequence of events by time (e.g., before, after, morning, night, seasons) 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by ordering a sequence of events by time (e.g., before, after, morning, night, seasons) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by ordering a sequence of events by time (e.g., before, after, morning, night, seasons) Solve problems involving the expected or predicted progression of time <p>K.M.4 Understand that clocks and calendars are used to measure time A. Solve problems by recognizing clocks as tools to measure time B. Solve problems by recognizing calendars as tools to measure time 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems using clocks to measure time Solve problems using calendars to measure time <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems using clocks to measure time Solve problems using calendars to measure time Solve problems by recognizing clocks as a tool to measure time Solve problems by recognizing calendars as a tool to measure time | <p>This is not covered in Big Ideas Math: Modeling Real Life, Grade K, © 2019. It is covered in Additional Topic: Time: Morning, Afternoon, and Night.</p> <p>This is not covered in Big Ideas Math: Modeling Real Life, Grade K, © 2019. Clocks are covered in Big Ideas Math: Modeling Real Life, Grade 1, © 2019 Lessons 12.1, 12.2, 12.3, 12.4</p> |
| 1 | Length | <p>1.M.1 Measure, order, compare, and express lengths of objects by counting non-standard units (1.MD.1.2) A. Solve problems by measuring and expressing lengths of objects by counting with non-standard units B. Solve problems by ordering and comparing lengths of objects by counting with non-standard units 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring and expressing lengths of objects by counting with non-standard units Solve problems by ordering and comparing lengths of objects by counting with non-standard units <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring and expressing lengths of objects by counting with non-standard units Solve problems by ordering and comparing lengths of objects by counting with non-standard units Solve problems by demonstrating the use of a tool for measuring | 10.1, 10.2, 10.3, 10.4, 10.5 |
| | Time | <p>1.M.2 Tell and write time in hours and half-hours using analog and digital clocks (1.MD.3) A. Solve problems by telling time in hours using analog clocks B. Solve problems by writing time in hours using analog clocks C. Solve problems by telling time in half-hours using analog clocks D. Solve problems by writing time in half-hours using analog clocks E. Solve problems by telling time in hours using digital clocks F. Solve problems by writing time in hours using digital clocks G. Solve problems by telling time in half-hours using digital clocks H. Solve problems by writing time in half-hours using digital clocks 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by telling time in hours using analog clocks Solve problems by writing time in hours using analog clocks | 12.1, 12.2, 12.3, 12.4 |

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| | | <ul style="list-style-type: none"> • Solve problems by telling time in half-hours using analog clocks • Solve problems by writing time in half-hours using analog clocks • Solve problems by telling time in hours using digital clocks • Solve problems by writing time in hours using digital clocks • Solve problems by telling time in half-hours using digital clocks • Solve problems by writing time in half-hours using digital clocks <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by telling time in hours using analog clocks • Solve problems by writing time in hours using analog clocks • Solve problems by telling time in half-hours using analog clocks • Solve problems by writing time in half-hours using analog clocks • Solve problems by telling time in hours using digital clocks • Solve problems by writing time in hours using digital clocks • Solve problems by telling time in half-hours using digital clocks • Solve problems by writing time in half-hours using digital clocks • Solve problems by comparing and contrasting analog and digital clocks | |
| | Money | <p>1.M.3 Identify pennies, nickels, dimes, quarters, half-dollars, and dollar bills</p> <p>A. Solve problems by identifying pennies</p> <p>B. Solve problems by identifying nickels</p> <p>C. Solve problems by identifying dimes</p> <p>D. Solve problems by identifying quarters</p> <p>E. Solve problems by identifying half-dollars</p> <p>F. Solve problems by identifying dollar-bills</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems by identifying pennies • Solve problems by identifying nickels • Solve problems by identifying dimes • Solve problems by identifying quarters • Solve problems by identifying half-dollars • Solve problems by identifying dollar-bills <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by identifying pennies • Solve problems by identifying nickels • Solve problems by identifying dimes • Solve problems by identifying quarters • Solve problems by identifying half-dollars • Solve problems by identifying dollar-bills • Solve problems by sorting coins into same groups | <p>Additional Topic: Money: Identify and Write Values of Coins</p> <p>Dollar bills are addressed in Bid Ideas Math: Modeling Real Life, Grade 2, © 2019 Lessons 14.4, 14.6</p> |
| 2 | Length | <p>2.M.1 Measure and estimate lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks) (2.MD.1,3)</p> <p>A. Solve problems by measuring lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks)</p> <p>B. Solve problems by estimating lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks)</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems by measuring lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks) • Solve problems by estimating lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by measuring lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks) • Solve problems by estimating lengths in standard units (e.g., inches, feet, centimeters, meters) using appropriate tools (e.g., rulers, yardsticks, meter sticks) • Solve problems by measuring lengths using non-standard units • Solve problems by estimating lengths using non-standard units <p>2.M.2 Measure, compare, and describe the length of an object using two units of measurement (e.g. inches and yards, centimeters and meters) (2.MD.2)</p> <p>A. Solve problems by comparing the length of an object using two units of measurement (e.g. inches and yards, centimeters and meters)</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems by comparing the length of an object using two units of measurement (e.g. inches and yards, centimeters and meters) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by comparing the length of an object using two units of measurement (e.g. inches and yards, centimeters and meters) • Solve problems by measuring the length of an object using a standard unit <p>2.M.3 Measure to compare the length of two objects using a standard length unit (2.MD.4)</p> <p>A. Solve problems by comparing the length of two objects using a standard length unit</p> | <p>11.1, 11.2, 11.3, 11.4, 11.5, 11.7, 11.8</p> <p>11.7</p> <p>11.8</p> |

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| | | <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by comparing the length of two objects using a standard length unit <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by comparing the length of two objects using a standard length unit Solve problems by measuring the length of an object using a standard unit <p>2.M.4 Use addition and subtraction equations within 100 to solve word problems involving lengths of the same unit (2.MD.5)</p> <p>A. Solve problems using addition equations within 100 to solve word problems involving lengths of the same unit</p> <p>B. Solve problems using subtraction equations within 100 to solve word problems involving lengths of the same unit</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve word problems using addition equations within 100 involving lengths of the same unit Solve word problems using subtraction equations within 100 involving lengths of the same unit <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve word problems using addition equations within 100 involving lengths of the same unit Solve word problems using subtraction equations within 100 involving lengths of the same unit Solve problems using addition equations within 50 involving lengths of the same unit Solve problems using subtraction equations within 50 involving lengths of the same unit <p>2.M.5 Represent whole numbers as equally spaced lengths from 0 on a number line; represent sums and differences within 100 on a number line (2.MD.6)</p> <p>A. Solve problems by representing whole numbers as equally spaced lengths from 0 on a number line</p> <p>B. Solve problems by representing sums within 100 on a number line</p> <p>C. Solve problems by representing differences within 100 on a number line</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by representing whole numbers as equally spaced lengths from 0 on a number line Solve problems by representing sums within 100 on a number line Solve problems by representing differences within 100 on a number line <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by representing whole numbers as equally spaced lengths from 0 on a number line Solve problems by representing sums within 100 on a number line Solve problems by representing differences within 100 on a number line Solve problems by representing sums within 50 on a number line Solve problems by representing differences within 50 on a number line | <p>12.1, 12.2, 12.3, 12.4</p> <p>12.1, 13.6, 13.7</p> |
| | <p>Time</p> | <p>2.M.6 Tell and write time to the nearest five minutes from analog and digital clocks using a.m. and p.m. (2.MD.7)</p> <p>A. Solve problems by telling time to the nearest five minutes from analog clocks using a.m. and p.m.</p> <p>B. Solve problems by writing time to the nearest five minutes from analog clocks using a.m. and p.m.</p> <p>C. Solve problems by telling time to the nearest five minutes from digital clocks using a.m. and p.m.</p> <p>D. Solve problems by writing time to the nearest five minutes from digital clocks using a.m. and p.m.</p> <p>3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by telling time to the nearest five minutes from analog clocks using a.m. and p.m. Solve problems by writing time to the nearest five minutes from analog clocks using a.m. and p.m. Solve problems by telling time to the nearest five minutes from digital clocks using a.m. and p.m. Solve problems by writing time to the nearest five minutes from digital clocks using a.m. and p.m. <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by telling time to the nearest five minutes from analog clocks using a.m. and p.m. Solve problems by writing time to the nearest five minutes from analog clocks using a.m. and p.m. Solve problems by telling time to the nearest five minutes from digital clocks using a.m. and p.m. Solve problems by writing time to the nearest five minutes from digital clocks using a.m. and p.m. Solve problems by differentiating between a.m. and p.m. Solve problems by telling time to the nearest half-hour Solve problems by writing time to the nearest half-hour | <p>14.8, 14.9, 14.10</p> |
| | <p>Money</p> | <p>2.M.7 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ (2.MD.8)</p> <p>A. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢</p> <p>3.0 Items include ALL of the following:</p> <p>Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢</p> <p>2.0 items include at least one of the following:</p> <p>Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢</p> <p>Solve problems by identifying the value of different coins and a dollar bill</p> | <p>14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7</p> |
| <p>Assessments</p> | | <p>Math Interviews; Checklists; Graphs; Measurement Tools, Clocks, Money; Written Assessments</p> | |
| <p>Essential Question: What do the systems of measurement reveal about God's creation?</p> | | <p>Big Idea: Accurately measuring and quantifying objects in God's creation demonstrates His dependability and precision.</p> | |
| <p>3</p> | <p>Measurement</p> | <p>3.M.1 Solve problems involving measurement and estimation of intervals of time (nearest minute), liquid volume (liter), and masses of objects (gram, kilogram) (3.MD.1,2)</p> <p>A. Solve problems involving measurement of intervals of time (nearest minute)</p> <p>B. Solve problems involving estimation of intervals of time (nearest minute)</p> | <p>12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8</p> |

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| | | <p>C. Solve problems involving measurement of liquid volume (liter) D. Solve problems involving estimation of liquid volume (liter) E. Solve problems involving measurement of masses of objects (gram,kilogram) F. Solve problems involving estimation of masses of objects (gram,kilogram) 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems involving measurement of intervals of time (nearest minute) Solve problems involving estimation of intervals of time (nearest minute) Solve problems involving measurement of liquid volume (liter) Solve problems involving estimation of liquid volume (liter) Solve problems involving measurement of masses of objects (gram,kilogram) Solve problems involving estimation of masses of objects (gram,kilogram) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems involving measurement of intervals of time (nearest minute) Solve problems involving estimation of intervals of time (nearest minute) Solve problems involving measurement of liquid volume (liter) Solve problems involving estimation of liquid volume (liter) Solve problems involving measurement of masses of objects (gram,kilogram) Solve problems involving estimation of masses of objects (gram,kilogram) Solve problems involving measurement of time to the nearest 5 minutes Solve problems involving estimation of time to the nearest 5 minutes <p>3.M.2 Read and understand a calendar using day, week, month, and year A. Solve problems by reading a calendar using day, week, month, and year 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by reading a calendar using day, week, month, and year <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by reading a calendar using day, week, month, and year Solve problems by reading a calendar using day Solve problems by reading a calendar using week Solve problems by reading a calendar using month <p>3.M.3 Explain and measure temperature using Celsius and Fahrenheit scales A. Solve problems by measuring temperature using Celsius scales B. Solve problems by measuring temperature using Fahrenheit scales 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring temperature using Celsius scales Solve problems by measuring temperature using Fahrenheit scales <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by measuring temperature using Celsius scales Solve problems by measuring temperature using Fahrenheit scales Solve problems by recognizing that temperature is measured in degrees | <p>Additional Topic: Time: Yesterday, Today, Tomorrow.</p> <p>Additional Topic: Temperature: Understanding Temperatures.</p> |
| | <p>Geometric Measurement</p> | <p>3.M.4 Understand concepts of area and its measurement by counting unit squares (cm², m², in², ft²); apply multiplication and addition to area (3.MD.5,6,7) A. Solve problems to find area by counting unit squares (cm², m², in², ft²) B. Solve problems to find area by using multiplication and addition 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems to find area by counting unit squares (cm², m², in², ft²) Solve problems to find area by using multiplication and addition <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems to find area by counting unit squares (cm², m², in², ft²) Solve problems to find area by using multiplication and addition Solve problems by measuring the length of a shape using standard units (e.g., inches, feet) and appropriate tools (e.g., rulers) <p>3.M.5 Solve real-world and mathematical problems recognizing area and perimeter of plane figures; distinguish between linear and area measurements (3.MD.8) A. Solve problems by finding the area of plane figures B. Solve problems by finding perimeter of plane figures C. Solve problems to distinguish between linear and area measurements 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by finding the area of plane figures Solve problems by finding perimeter of plane figures Solve problems to distinguish between linear and area measurements <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by finding the area of plane figures Solve problems by finding perimeter of plane figures Solve problems to distinguish between linear and area measurements Solve problems by partitioning a rectangle into rows and columns of same-size squares and counting to find the total number of squares | <p>6.1, 6.2, 6.3, 6.4, 6.5, 15.4, 15.5</p> <p>15.1, 15.2, 15.3, 15.4, 15.5</p> |

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| | <p style="text-align: center;">Money</p> | <p>3.M.6 Construct various equivalent combinations of money; add and subtract money amounts A. Solve problems by constructing various equivalent combinations of money B. Solve problems by adding amounts of money C. Solve problems by subtracting amounts of money 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems by constructing various equivalent combinations of money • Solve problems by adding amounts of money • Solve problems by subtracting amounts of money <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by constructing various equivalent combinations of money • Solve problems by adding amounts of money • Solve problems by subtracting amounts of money • Solve problems by recognizing dollar bills, quarters, dimes, nickels, and pennies and their respective values | <p>Additional Topic: Money: Find Total Values of Coins, Additional Topic: Money: Find Total Values of Different Coins, Additional Topic: Money: Use Coins or Bills to Make Change.</p> |
| <p>4</p> | <p style="text-align: center;">Measurement/ Conversion</p> | <p>4.M.1 Solve problems involving measurement (time, volume, mass, money, simple fractions, decimals, distance) (4.MD.2) A. Solve problems involving measurement of time B. Solve problems involving measurement of volume C. Solve problems involving measurement of mass D. Solve problems involving measurement of money E. Solve problems involving measurement using simple fractions F. Solve problems involving measurement using decimals G. Solve problems involving measurement of distance 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems involving measurement of time • Solve problems involving measurement of volume • Solve problems involving measurement of mass • Solve problems involving measurement of money • Solve problems involving measurement using simple fractions • Solve problems involving measurement using decimals • Solve problems involving measurement of distance <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems involving measurement of time • Solve problems involving measurement of volume • Solve problems involving measurement of mass • Solve problems involving measurement of money • Solve problems involving measurement using simple fractions • Solve problems involving measurement using decimals • Solve problems involving measurement of distance <p>4.M.2 Convert measurement from a larger unit to a smaller unit (km, m, cm; kg, g; lb, oz; L, mL; hr, min, sec) (4.MD.) A. Solve problems by converting measurement from km to m, km to cm, m to cm B. Solve problems by converting measurement from kg to g C. Solve problems by converting measurement from lb to oz D. Solve problems by converting measurement from L to mL E. Solve problems by converting measurement from hr to min, hr to sec, min to sec 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems by converting measurement from km to m, km to cm, m to cm • Solve problems by converting measurement from kg to g • Solve problems by converting measurement from lb to oz • Solve problems by converting measurement from L to mL • Solve problems by converting measurement from hr to min, hr to sec, min to sec <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems by converting measurement from km to m, km to cm, m to cm • Solve problems by converting measurement from kg to g • Solve problems by converting measurement from lb to oz • Solve problems by converting measurement from L to mL • Solve problems by converting measurement from hr to min, hr to sec, min to sec • Solve problems involving measurement of time (nearest minute), liquid volume (liter), masses of objects (gram, kilogram) and distance (m, km) • Solve problems by using the appropriate unit of measurement for the given <p>4.M.3 Apply area and perimeter formulas (4.MD.3) A. Solve problems to find area by using a formula B. Solve problems to find perimeter by using a formula 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> • Solve problems to find area by using a formula • Solve problems to find perimeter by using a formula <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> • Solve problems to find area by using a formula • Solve problems to find perimeter by using a formula | <p>10.7, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9</p> <p>11.1, 11.2, 11.3, 11.4, 11.5, 11.7, 11.9</p> <p>12.1, 12.2, 12.3, 12.4</p> |

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| | | <ul style="list-style-type: none"> Solve problems by using multiplication in a given formula Solve problems by using addition in a given formula <p>4.M.4 Read a Fahrenheit and Celsius thermometer knowing the significance of 32°F, 212°F, 0°C, and 100°C A. Solve problems by reading a Fahrenheit thermometer and know the significance of 32°F and 212°F B. Solve problems by reading a Celsius thermometer and know the significance of 0°C and 100°C 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by reading a Fahrenheit thermometer and know the significance of 32°F and 212°F Solve problems by reading a Celsius thermometer and know the significance of 0°C and 100°C <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by reading a Fahrenheit thermometer and know the significance of 32°F and 212°F Solve problems by reading a Celsius thermometer and know the significance of 0°C and 100°C Solve problems by measuring temperature using Celsius and Fahrenheit scales | The opportunity to address this standard exists. For example, see: Additional Topic: Temperature: Understanding Temperatures. |
| | Angles | <p>4.M.5 Recognize angles as geometric shapes that are formed wherever two rays share a common end point; understand concepts of angle measurement and measure angles in whole-number degrees (4.MD.5,6,7) A. Solve problems by recognizing that angles are formed wherever two rays share a common end point B. Solve problems by measuring angles in whole-number degrees 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by recognizing that angles are formed wherever two rays share a common end point Solve problems by measuring angles in whole-number degrees <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by recognizing that angles are formed wherever two rays share a common end point Solve problems by measuring angles in whole-number degrees Solve problems by recognizing a protractor as a tool for measuring angles | 13.2, 13.4, 13.5, 13.6, 13.7, 13.8 |
| | Money | <p>4.M.6 Know how to count up to make change A. Solve problems by counting up to make change 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by counting up to make change <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by counting up to make change Solve problems by adding and subtracting money amounts | 10.7 |
| 5 | Conversion | <p>5.M.1 Convert like units within a given measurement system (e.g., cm to m, m to cm) (5.MD.1) A. Solve problems by converting units of measurement in the given system (e.g., cm to m, m to cm) 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems by converting units of measurement in the given system (e.g., cm to m, m to cm) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems by converting units of measurement in the given system (e.g., cm to m, m to cm) Solve problems by converting measurement from larger unit to smaller (e.g., m to cm, ft to in) | 11.1, 11.2, 11.3, 11.4, 11.5, 11.7 |
| | Volume | <p>5.M.2 Understand concepts of volume measurement in cubic measure (cm³, in³, ft³) by applying multiplication and addition (5.MD.3,4,5) A. Solve problems that measure volume by counting unit cubes B. Solve problems by using concepts of volume measurement in cubic measure (cm³, in³, ft³) C. Solve problems of volume measurement by using multiplication (e.g., l x w x h) 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems that measure volume by counting unit cubes Solve problems by using concepts of volume measurement in cubic measure (cm³, in³, ft³) Solve problems of volume measurement by using multiplication (e.g., l x w x h) <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems that measure volume by counting unit cubes Solve problems by using concepts of volume measurement in cubic measure (cm³, in³, ft³) Solve problems of volume measurement by using multiplication (e.g., l x w x h) Solve problems by multiplying 3 factors | 13.1, 13.2, 13.3, 13.4, 13.5 |
| | Geometric Measurement | <p>5.M.3 Know the relationship between radius and diameter A. Solve problems showing the relationship between radius and diameter 3.0 Items include ALL of the following:</p> <ul style="list-style-type: none"> Solve problems showing the relationship between radius and diameter <p>2.0 items include at least one of the following:</p> <ul style="list-style-type: none"> Solve problems showing the relationship between radius and diameter Solve problems by identifying a circle and its midpoint | This standard is addressed in <i>Big Ideas Math: Modeling Real Life, Grade 7</i> , © 2019 in Lesson 9.1. |
| Assessments | | Written Assessments; Journal Entries; Class Discussions; Open-ended Projects and Problems; Visual and Virtual Models; Diagrams | |
| Essential Question: How does the accuracy of measurements help us fathom God's creation? | | Big Idea: Accurate measurements and conversions help to solve multi-step real-world problems and see the scope of God's creation. | |

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| 6 | Elapsed Time | <p>6.M.1 Calculate elapsed time A. Solve problems by calculating elapsed time 3.0 items include all of the following:</p> <ul style="list-style-type: none"> • Solve problems by calculating elapsed time <p>2.0 items include one of the following:</p> <ul style="list-style-type: none"> • Solve problems by calculating elapsed time • Solve problems by converting units of time | <p>This standard is addressed in <i>Big Ideas Math: Modeling Real Life, Grade 4</i>, © 2019 in Lesson 11.8.</p> |
| 7 | Measurement Systems | <p>7.M.1 Convert between a variety of standard/metric measures (e.g., in to cm, cm to in) A. Solve problems that convert between standard and metric measurements 3.0 items include all of the following:</p> <ul style="list-style-type: none"> • Solve problems that convert between standard and metric measurements <p>2.0 items include one of the following:</p> <ul style="list-style-type: none"> • Solve problems that convert between standard and metric measurements • Solve problems that convert between standard measurements (e.g., ft.-inch.) • Solve problems that convert between metric measurements (e.g., cm-m) | <p>This standard is addressed in <i>Big Ideas Math: Modeling Real Life, Grade 6</i>, © 2019 in Lessons 3.6, 4.1.</p> |
| 8 | Mathematical Precision | <p>8.M.1 Use appropriate significant digits in calculations A. Solve problems using significant digits 3.0 items include all of the following:</p> <ul style="list-style-type: none"> • Solve problems using significant digits <p>2.0 items include one of the following:</p> <ul style="list-style-type: none"> • Solve problems using significant digits • Solve problems by identifying significant digits | <p>This standard is not directly addressed in this edition of <i>Modeling Real Life, Grade 8</i>.</p> |
| Assessments | | Open-ended Projects and Problems; Written Assessments; Journal Entries; Class Discussions; Oral Reports; Visual and Virtual Models | |