# PACING GUIDE 2019-2020

## Grade Level: 5th First 9 Week Grading Period

| Week of: | Math | Science |
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| **8/26** | Add/Sub/Estimate Wholes<br>SOL 5.4<br><br>estimate and solve practical problems involving addition and subtraction of whole numbers;<br><br>apply properties and use multiple strategies, including use of a calculator | Scientific Method:<br>-Observation/Inference<br>-SOL 5.1<br>Boat Experiment |
| **9/2** | Addition & Subtraction of Wholes and Decimals<br>SOL 5.4<br><br>estimate and solve practical problems involving addition and subtraction of whole numbers<br><br>apply properties and use multiple strategies, including use of a calculator<br><br>Unit Test 9/7 | Scientific Method:<br>-Data/Measurement<br>Living Systems Intro<br>-SOL 5.1 and 5.5A<br>Intro. Cells and their parts |
| **9/9** | Multiplication & Division<br><br>estimate & solve practical problems involving multiplication of 2- and 3-digit numbers, multi-step problems that include addition & subtraction, & area of rectangles and squares; use a variety of problem types; apply properties, and use multiple strategies, including use of a calculator<br><br>SOL-5.3, 5.4, 5.19 | Living Systems<br>SOL-5.5A<br>Plant / Animal Cell Parts and Functions |
| **9/16** | Multiplication & Division<br>SOL-5.3, 5.4, 5.19<br><br>estimate & solve practical problems involving multiplication of 2- and 3-digit numbers, multi-step problems that include addition & subtraction, & area of rectangles and squares; use a variety of problem types; apply | Living Systems 5.5B<br>Classification - Vertebrates |

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| | properties, and use multiple strategies, including use of a calculator | |
| **9/23**<br>**B2SN** | Multiplication & Division<br>SOL-5.3, 5.4, 5.19<br><br>divide with remainders using<br>multiple strategies;<br>interpret the remainder in practical problems;<br>students may use a calculator | Living Systems<br>–SOL 5.5B<br>Classification - Invertebrates |
| **9/30** | Multiplication & Division<br>SOL-5.3, 5.4, 5.19<br><br>divide with remainders using<br>multiple strategies;<br>interpret the remainder in practical problems;<br>students may use a calculator | Living Systems<br>–SOL 5.5BC<br>Vertebrates/Invertebrates<br>Traits of organisms |
| **10/7** | Multiplication & Division<br>SOL-5.3, 5.4, 5.19<br><br>create and solve multi-step practical problems involving all operations with whole numbers, and area of squares and rectangles<br><br>Unit Test 10/11 | Living Systems End of Unit Assessment<br>-SOL 5.5ABC |
| **10/14** | Measurement<br>SOL-5.8 5.9 5.11<br><br>solve practical problems involving perimeter, area, and volume in metric units; differentiate among perimeter, area, and volume<br><br>solve practical problems related to elapsed time within a 24-hour period (including finding beginning or ending time) | Earths Surfaces-Interior of the Earth and Structure<br>5.7A and B<br>Types of Rocks – classifying rocks<br>Rock Cycle |
| **10/21** | Measurement<br>SOL-5.5 5.9 5.11<br><br>solve practical problems related to elapsed time within a 24-hour period | Earths Surfaces-Interior of the Earth and Structure<br>5.7A and B<br>Rock Types and Rock Cycle |

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| | (including finding beginning or ending time)<br><br>Solve problems involving metric length, mass, and capacity<br>Unit Test 10/26 | |
| **10/28** | Fractions & Decimal Number Sense<br><br>represent and identify equivalencies among fractions, mixed numbers, improper fractions (*include use of ≠ symbol)*<br><br>model, order, and compare fractions, including mixed numbers (*include use of ≠ symbol)*<br><br>SOL: 5.2 | Earth's Surfaces-5.7A, B, C, and F<br><br>Rock Types<br><br>Rock Cycle<br><br>Weathering and Erosion<br><br>Fossils |

**PACING GUIDE 2019-2020**

**Grade Level: 5th Grade** **Second 9 Week Grading Period**

| Week of: | Math | Science |
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| **11/4 Conferences** | Fractions & Decimal Number Sense<br><br>model fraction/decimal equivalences (all)<br><br>SOL: 5.2 | Earths Surfaces-Fossils<br>SOL 5.7 C<br><br>Fossils |
| **11/11** | Fractions & Decimal Number Sense<br><br>model fraction/decimal equivalences (all)<br><br>SOL: 5.2 | Earth's Surfaces-Layers of the Earth<br>SOL 5.7D<br>Earth's Layers |
| **11/18** | Fractions & Decimal Number Sense<br><br>compare and order fractions (including mixed numbers) and decimals (*include use of ≠ symbol)*<br><br>SOL: 5.2 | Earths Surfaces Plate Tectonics<br>SOL 5.7D and E<br>Earth's Layers<br>Plate Tectonics |
| **11/25** | Fractions & Decimal Number Sense<br><br>compare and order fractions (including mixed numbers) and decimals (*include use of ≠ symbol)*<br><br>SOL: 5.2 | Earths Surfaces-Plate Tectonics<br>5.7 E<br>Plate Tectonics |
| **12/2** | Fractions & Decimal Number Sense<br><br>compare and order decimals through thousandths (*include use of ≠ symbol)*<br>SOL: 5.2<br><br>Fractions & Decimals Unit test 12/6 | Earths Surfaces- Plate Tectonics, Weathering, and Erosion<br>SOL 5.7 E and F<br>Plate Tectonics<br>Weathering and Erosion<br>Human Impact |
| **12/9** | Data Analysis & Statistics<br><br>represent, interpret, and compare data in line plots and stem-and- leaf-plots<br><br>SOL 5.16ab | Earths Surfaces- Human Impact<br>SOL 5.7G<br>End of the Unit Assessment |

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| **12/16** | Data Analysis & Statistics<br><br>describe range as measure of spread,<br>find range, mode, mean, and median of a set of data<br><br>SOL: 5.14<br><br>Unit Test 12/20 | Science Reasoning and Investigations<br>SOL 5.1<br>Types of Data |
| **1/6** | Fraction Computation<br><br>add and subtract fractions and mixed numbers with like denominators;<br>regrouping strategies with models;<br>*solve single-step practical problems*<br><br>SOL: 5.5, 5.6 | Science Reasoning and Investigations-Candy Trials<br>SOL 5.1<br>Candy Trials Experiment |
| **1/13** | Fraction Computation<br><br>add and subtract mixed numbers with unlike denominators;<br>*solve single-step practical problems*<br><br>add and subtract fractions with unlike denominators; simplify fractions;<br>*solve single-step practical problems*<br><br>subtract mixed numbers with unlike denominators;<br>regrouping strategies;<br>*solve single-step practical problems*<br>SOL: 5.5, 5.6 | Oceans-Geological Characteristics<br>5.6A<br>Features of the ocean floor |
| **1/20** | Fraction Computation<br><br>solve single-step and multi-step practical problems involving addition and subtraction of fractions and mixed numbers<br>SOL: 5.5, 5.6 | Oceans- Geological and Physical Characteristics<br>5.6 A and B<br>Features of the ocean floor<br>Characteristics of going deeper |
| 1/27 | Fraction Computation<br><br>review of all addition and subtraction skills for fractions and mixed numbers<br><br>SOL: 5.5, 5.6 | Oceans- Geological, Ecological and Physical Properties<br>5.6A, B, and C<br>Characteristics of going deeper<br>Ocean Food Chain |

**PACING GUIDE 2017-2018**

**Grade Level: 5th Grade Third 9 Week Grading Period**

| Week of: | Math | Science |
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| **2/3** | Fraction Computation<br><br>represent multiplication of a whole number and a fraction with models; solve single-step practical problems involving multiplication of a whole number, limited to 12 or less, and a proper fraction, **with models**.<br><br>SOL- 5.5 | Oceans- Geological, Ecological and Physical Properties<br>5.6A, B, and C<br>Features of ocean floor<br>Characteristics of going deeper<br>Ocean Food Chain |
| **2/10** | Decimal Computation<br><br>estimate sums and differences using single and multi-step practical problems involving addition and subtraction of decimals<br><br>estimate products; extend meaning of multiplication of whole numbers to multiplication of decimals using models<br><br>SOL: 5.5, 5.6 | Matter-Phases of Matter<br>SOL: 5.4A and B<br>3 States of Matter<br>Effect on temperature |
| **2/17** | Decimal Computation<br><br>Estimate, model, and solve decimal division problems using decimal divisor<br><br>practice multiplication and division of decimals;<br>solve practical problems involving all operations<br><br>SOL: 5.5ab | Matter-Molecules and Compounds<br>SOL: 5.4 C and D<br>Atoms and elements<br>Molecules and compounds |
| **2/24** | Decimal Computation<br><br>mixed practice of multiplication and division; solve practical problems involving all operations<br><br>End of the Unit Assessment<br>SOL: 5.5ab | Matter-Phases of Matter, Atoms, Molecules, Compounds, and Elements<br>SOL: 5.4-A, B, C, and D<br>States of matter<br>Effect of temperature<br>Atoms and elements<br>Molecules and compounds |
| **3/2** | Patterns, Functions, Algebra<br><br>identify and describe the characteristics even & odd numbers<br><br>identify and describe the characteristics of prime & composite numbers<br><br>simplify whole number numerical expressions, using the order of operations<br><br>SOL: 5.3b, 5.7, 5.18 | Matter-Mixtures and Solutions<br>5.4E |

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| **3/9** | Patterns, Functions, & Algebra<br><br>model one-step linear equations<br><br>describe relationships found in a numerical pattern, using whole numbers, fractions and decimals<br><br>identify, describe, create, express, and extend number patterns found in objects, pictures, numbers, and tables<br><br>SOL: 5.3b, 5.7, 5.18 | Matter Review<br>SOL 5.4A, B, C, and D<br>End of Unit Test |
| **3/16** | Patterns, Functions, & Algebra<br><br>Create a problem situation based on a given open sentence using a single variable and one operation<br>SOL: 5.3b, 5.7, 5.18<br><br>Unit Test 3/20 | Sound-Compression Waves, Vibrations, and Parts of a Sound Wave<br>SOL 5.2A and B<br>Sound Compressions<br>Parts of a Sound Wave<br><br>*Begin 4th Grade SOL Review with 4th Grade Teachers |
| **3/23** | Geometry<br><br>Measure, identify, and classify right, obtuse, acute, and straight angles<br><br>recognize angle measures are additive; solve addition and subtraction problems to find an unknown angle in a diagram<br><br>classify triangles based on the types of their angles<br><br>find unknown angle measure within a triangle.<br><br>SOL 5.12, 5.13ab | Sound- Sound through Matter<br>SOL 5.2C<br>Sound travels through three states of matter<br><br>4th Grade SOL Review |
| 3/30 | Geometry<br><br>classify triangles by sides; identify congruent sides with markings<br><br>combine & subdivide plane figures; compare and contrast the characteristics of a given polygon that has been subdivided with the characteristics of the resulting parts<br><br>recognize and apply transformations<br><br>SOL 5.12, 5.13ab | Sound-Uses and Applications of Sound 5.2D<br>End of Unit Assessment<br>SOL Review<br><br>4th Grade SOL Review |

**THEMES/UNITS:**_____

**PACING GUIDE 2017-2018**

**Grade Level: 5th Grade** **Fourth 9 Week Grading Period**

| Week of: | Math | Science |
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| **4/13** | Geometry<br><br>identify & describe diameter, radius, chord & circumference.<br><br>investigate relationships among parts of a circle<br><br>SOL 5.10<br>Unit test: 4/17 | Light- Light Waves and the Visible Spectrum<br>5.3A and B<br>Parts of a light wave (transverse)<br>ROY G BIV<br>SOL Review<br><br>4th Grade SOL Review |
| **4/20** | Probability<br><br>construct sample spaces (tree diagrams, lists, and charts) to identify the probability of each outcome<br><br>predict & determine probability of an outcome<br><br>SOL 5.15 | Light- Opaque, Transparent and Translucent<br>5.3B<br>SOL Review<br><br>4th Grade SOL Review |
| **4/27** | Probability<br><br>predict & determine probability of an outcome<br><br>Determine probability of an outcome by using the Fundamental Counting Principle<br><br>End of the Unit Assessment-May 1<br>SOL: 5.15 | Light-Refraction and Reflection<br>5.3 D and E<br>Prisms and spectrums<br>SOL Review<br><br>4th Grade SOL Review |
| **5/4** | SOL Review and Testing<br>Science SOL-May 7 | SOL Review 4th and 5th/ SOL Test |
| **5/11** | SOL Review & Testing<br>Math SOL-May 15 | **Math Review** |
| **5/18** | SOL Review & Testing | Math Review<br>SOL Remediation |
| **5/25** | SOL Remediation | SOL Remediation |
| **6/1** | SOL Retakes | SOL Retakes<br>5.1 Scientific Investigation |
| **6/8 – 6/12** | Ordered Pairs-6th Grade Preparation | 5.1 Scientific Investigation |

**THEMES/UNITS:**_____