**A Year of Work in Grade 4: 2016-2017**

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| **Wee** | **Unit of Inquiry** | **Learner Profile & Attitudes** | **Approaches to Learning** | **Language Arts** | | | **Mathematics** | |
| ***Reading and Writing Within the unit*** | ***Writer’s Workshop***  ***Outside the unit*** | ***Reader’s Workshop***  ***Outside the unit*** | ***Within the unit*** | ***Outside the unit*** |
| 1 | **Who We Are**  **Central Idea:**  Humans are curious about the phenomena they observe in the natural world.  **An Inquiry into:**   * methods of investigation * use of evidence * making connections   **Key Concepts:**  Form, Connection, Reflection  **Related concepts:**  Structure, Function, Systems, Cause and  Effect | **Reflective, Principled, Inquirer** | **Self-management:**  Codes of behavior  **Social skills:**  Accepting responsibility  **Thinking skills:**  Dialectical Thought  **Communications Skills:** Reading, Writing | Defining roles and responsibilities for teachers and students for Writer’s Workshop  Create Norms  Defining roles and responsibilities for teachers and students for Reader’s Workshop  Create Norms | **Launch: Personal Narrative** | **Launching Reader’s Workshop**  Discussion Skills for Thoughtful Readers  Cause and Effect  Sequence of Events - connected with personal narratives |  | **Bridges Unit 1**  Module 1- Models for multiplication and division  Module 2- Prime and Composite  Module 3- Multiplicative Comparisons & Equation  Do Module 4 with the Measurement Unit  **Number Corner September**  Base 10  Inches and feet  Multiples of 2, 4, 6  Save SPLAT for later  Models for Multiplication  Baseline Assessment  **Number Corner October**  Fractions and Decimals with Money  Working with large digit numbers: adding, reading, writing, rounding with a different rounding activity  Ratio Tables for Multiplication Problem Strings  Multi-step multiplication problems |
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| 7 | **Where We Are in Place and Time**  **Central Idea:**  People settle in places for political, economic, social and personal reasons.  **An Inquiry into:**   * physical features that attract or repel * development and impact of regions and boundaries * opportunities   **Key Concepts:**  Form, Causation, Connection  **Related concepts:**  Migration, Immigration, Movement, Physical Environment and Attributes | **Knowledgeable, Inquirer, Communicator** | **Thinking skills:**  Analysis, Evaluation  **Social skills:**  Cooperating  **Self-management Skills:**  Time-management  **Communication Skills:**  Viewing | Continent Project Writing  **Read Aloud**  A Long Walk to Water  Home of the Brave | **The Arc of Story: Realistic Fiction Writing**  **UoTW**  **Book 1** | **Interpreting Characters:The Heart of the Story**  **UoTR**  **Book 1** |  | **Bridges Unit 2**  ***Multi-digit Multiplication And Early Division***  Module 1- Building Multiplication Arrays  Module 2- Arrays & Ratio Tables  Module 3- Multiplication Stories & Strategies  Module 4- Early Division with Remainders: extend division beyond Bridges  **Number Corner November**  Skip calendar discussions  Liquid volume- cups, ounces, and gallons  Base 10: Roll and Compare & Multiples of 5 & 10  Multi-digit addition problem strings  Place value, rounding, & comparing word problems  **Number Corner December**  Pentominoes  Adding and subtracting/place value  Multiples of 7 & 9, Mystery grid multiplication facts  Multi-digit subtraction problem strings  Parallel, Perpendicular, and Line Symmetry |
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| 13 | **How the World Works**  **Central Idea:**  The electromagnetic force produces electricity, magnetism, light, and heat  **An Inquiry into:**   * magnetism * electricity * transfer of energy   **Key Concepts:**  Function, Connection, Change  **Related concepts:**  System Models, Engineering,  Technology | **Learner Profile:**  **Knowledgeable, Thinker** | **Thinking Skills:**  Acquisition of knowledge, Application  **Social Skills:**  Group decision making  **Self-Management Skills:**  Organization | Leveled magnetism and electricity texts for small group/guided reading | **Boxes and Bullets: Personal and Persuasive Essays**  **UoTW**  **Book 2** | **Reading the Weather, Reading the World**  **UoTR**  **Book 2**  **Bend 1 & 2** |  | Bridges Unit 3 Fractions & Decimals  Module 1- Equivalent Fractions  Module 2- Comparing, Composing & Decomposing Fractions & Mixed Numbers  Module 3- Introducing Decimals  Module 4- Fractions & Decimals  (Use Bridges Unit as a resource)  Number Corner Jan.  Similar Figures and Area  Fractional Parts of a Dollar (decimals and fractions)  Compare, order fractions between 0 & 1, division practice (division capture)  Division Problem strings (# lines & area models)  Division word problem |
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| **Week** | **Unit of Inquiry** | **Learner Profile & Attitudes** | **Approaches to Learning** | **Language Arts** | | | **Mathematics** | |
| ***Reading and Writing Within the unit*** | ***Writer’s Workshop***  ***Outside the unit*** | ***Reader’s Workshop***  ***Outside the unit*** | ***Within the unit*** | ***Outside the unit*** |
| 19 | **How We Express Ourselves**  **Central Idea:**  People use poetry to express their ideas, emotions, and beliefs  **An Inquiry into:**   * forms of poetry * poet’s craft * purpose and value   **Key Concepts:**  Function, Connection, Perspective  **Related concepts:**  Precision, Aesthetics, Self-Awareness | **Risk-taker, Communicator,**  **Open-minded** | **Communication Skills:**  Speaking, Writing  **Thinking Skills:**  Analysis, Metacognition  **Social Skills:**  Respecting others | **Poetry**  **If…, Then … Poetry** |  |  |  | FOSS Measurement Unit  Bridges Unit 4  Bridges Unit 5  Geometry and Measurement  Number Corner Feb.   * Identify, classify, and compare rays, lines, line segments and polygons * Angles and degrees in a circle, introduce protractors * Ordering decimals on a number line * Adding & subtracting fractions w/ like and unlike denominators problem strings * Representing multi-step word problems w/ equations   Number Corner March.   * Identify, classify, and compare rays, lines, line segments and polygons |
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| 25 | **How We Organize Ourselves**  **Central Idea:**  Economics describes the exchange of goods and services.  **An Inquiry into:**   * trading, bartering and monetary systems * supply and demand * perceptions of value   **Key Concepts:**  Function, Connection, Perspective  **Related concepts:**  Value, Exchange Systems | **Knowledgeable, Inquirer, Reflective** | **Research Skills:**  Organizing data, Presenting research findings  **Thinking Skills:**  Acquisition of knowledge, synthesis  **Social skills:**  Adopting a variety of roles | Compare/Contrast   * Bangladeshi Newsela article and planet money video   Inquiry Research   * Developing questions * Note taking * Determining Importance * Synthesizing   Read Aloud:   * Lawn Boy   Text Sources  Tubs | **Test Preparation and Independent Writing Projects** | **Non-Fiction**  **UoTR**  **Bend 3** |  | Bridges Unit 5 Continued |
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| 31 | **Sharing the Planet**  **Central Idea:**  There are competing interests over resources.  **Key Concepts:**  Causation, Connection, Perspective, Responsibility An **Inquiry into:**   * uses of resources * non-renewable resources * renewable resources   **Key Concepts:**  Causation, Connection, Perspective  **Related concepts:**  Regulation, competition,  Interdependence, Resources | **Open-minded, Communicator, Risk-taker** | **Research Skills:**  Collecting data, recording data  **Social Skills**:  Group decision making  **Communication Skills**: Presenting | Inquiry Research   * Developing questions * Note taking * Determining Importance * Synthesizing   Using multiple sources to provide evidence in informational essays/ articles.   * Nat Geo Beluga Video * Newsela marine life pollution articles   Read Aloud   * Heroes of the Environment   Text Sources  -Benchmark books, tubs & library | **If…,Then … Informational Writing**  **Considering the Literary Essay: Writing about Fiction**  **UoTW** | **If…,Then …**  **Social Issues** | . | Bridges Unit 7  Patterns and Problems |
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