The Investigations Curriculum

Grade 2

*Investigations in Number, Data, and Space* is a K-5 mathematics curriculum designed to engage students in making sense of mathematical ideas. The curriculum is designed to:

* Support students to make sense of mathematics and learn that they can be mathematical thinkers
* Focus on computational fluency with whole numbers
* Provide substantive work in important areas of mathematics-rational numbers, geometry, measurement, data, and early algebra-and connections among them
* Emphasize reasoning about mathematical ideas
* Communicate mathematics content and pedagogy
* Engage the range of learners in understanding mathematics

|  |  |  |
| --- | --- | --- |
| **Unit Title** | **CCSS Domains** | **Investigations’ Focus** |
| **Unit 1 – Counting Coins & Combinations** | Operations & Algebraic Thinking  Number & Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – Intro to Math Tools & Routines  Inv. 2 – Counting Coins  Inv. 3 – Combos of 10  Inv. 4 – Addition & Subtraction Situations |
| **Unit 2 – Shapes, Blocks and Symmetry** | Operations & Algebraic Thinking  Number & Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – 2D and 3D Shapes  Inv. 2 – What is a Rectangle? |
| **Unit 3 – Stickers, Number Strings, and Story Problems** | Operations & Algebraic Thinking  Number and Operations in Base Ten  Measurement & Data | Inv. 1 – Adding More Than Two Numbers  Inv. 2 – Addition & Subtraction  Inv. 3 – Counting by 2, 5, and 10  Inv. 4 – Place Value |
| **Unit 4 – Pockets, Teeth, & Favorite Things** | Operations & Algebraic Thinking  Number & Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – Working with Categorical Data  Inv. 2 – Pockets & Teeth |
| **Unit 5 – How Many Floors? Rooms?** | Operations & Algebraic Thinking  Number and Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – Growing Patterns: Ratio & Equal Groups  Inv. 2 – Repeating Patterns and Number Sequences |
| **Unit 6 – How Many Tens? Ones?** | Operations & Algebraic Thinking  Number and Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – Working with Tens & Ones  Inv. 2 – Working with 100  Inv. 3 – Adding to and Subtracting from 100  Inv. 4 – Making 100 with Equal Groups  Inv. 5A – Working w/ 3-Digit Numbers |
| **Unit 7 – Parts of a Whole & Group** | Number and Operations in Base Ten  Measurement & Data  Geometry | Inv. 1 – One Half  Inv. 2 – Halves, Thirds, & Fourths |
| **Unit Title** | **CCSS Domains** | **Investigations’ Focus** |
| **Unit 8- Partners, Teams, and Paper Clips** | Operations & Algebraic Thinking  Number and Operations in Base Ten  Measurement & Data | Inv. 1 Adding Even & Odd Numbers  Inv. 2 Remaining Addition Combos  Inv. 3 Subtraction  Inv. 4 Addition  Inv. 5A Adding and Subtracting 3-Digit Numbers |
| **Unit 9 – Measuring Lengths & Time** | Operations & Algebraic Thinking  Number and Operations in Base Ten  Measurement & Data | Inv. 1 – Different Units, Counts  Inv. 2 – Creating a Measuring Tool  Inv. 3 – Two Measurement Systems |