BC Draft Curriculum - Mathematics - Progressive Matrix

PROGRESSION IS HIGHLIGHTED IN THE FOLLOWING DOCUMENT VIA BOLDED TEXT.

| communicating | be able to problem solve. problem strategies, including real-life concrete and pictorial contexts, to develop, a paply mathematical understanding through problem solving asonably using whole-number benchmarks of 25, 50, and 100 and ents ntal math strategies and abilities to make sense of sums and differences and proof and logic to explore and make connections | BIG IDEAS Numbers have values and can be described, represented, and calculated in many different ways. Patterns represent identified regularities and can be used to solve problems. Objects and shapes can be described using attributes, and can be measured, constructed, compared, and sorted in many ways Information can be collected and represented in various forms that allow us to make interpretations. Units of measure can be used to compare and determine the measurable values of objects and shapes. Algebraic symbols can be used to represent, model, and analyze scenarios. Curricular Competencies Students will be able to problem solve. Analyzing a problem - Use an increasing variety of strategies to develop, construct, and apply mathematical understanding through problem solving - Estimate quantities reasonably, using large whole-number and fraction benchmarks, and the reasonableness of large whole-number calculations - Develop and apply mental math strategies for all operations to deepen understanding and develop computational fluency Reasoning and proof - Reason and use logic to explore, make connections, analyze observations, make generalizations from patterns, and test these generalizations | Curricular Competencies Students will be able to problem solve. Analyzing a problem Use multiple strategies to develop, construct, and apply mathematical understanding through problem solving - Estimate quantities reasonably using large whole-number, decimal, and fraction benchmarks, and the reasonableness of large whole number and decimal calculations. Data can be collected, organized, and displayed in many different ways. Units of measure can be used to compare and determine the measurable values of objects and shapes. Algebraic symbols can be used to represent, model, and analyze scenarios. Time is arranged into measurable segments that can help us organize our daily lives. Curricular Competencies Students will be able to problem solve. Analyzing a problem - Use multiple strategies to develop, construct, and apply mathematical understanding through problem solving - Estimate quantities reasonably using large whole-number, decimal, and fraction benchmarks, and the reasonableness of large whole number and decimal calculation. - Develop and apply mental math strategies for all operations to deepen understanding and develop fluency in making computations Reasoning and proof |
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| concepts • Visualize and des | d describe mathematical concepts thematical concepts to each other and make mathematical connections rld | Visualize and describe mathematical concepts Connect mathematical concepts to each other, and make mathematical connections to the real world | Visualize and describe mathematical concepts Connect mathematical concepts to each other and make mathematical connections to the real world |
| representations ore mathematics, solve problems, record, Use technology a | thematical understanding through concrete, pictorial, and symbolic | Representing • Develop mathematical understanding through concrete, pictorial, and symbolic representations • Use technology appropriately to explore mathematics, solve problems, record, communicate, and represent thinking | Representing Develop mathematical understanding through concrete, pictorial, and symbolic representations Use technology appropriately to explore mathematics, solve problems, record, communicate and represent thinking |
| pts and Content Concepts and Co | | Concepts and Content | Concepts and Content |
| e following concepts and content. Students will know | know and understand the following concepts and content. | Students will know and understand the following concepts and content. | Students will know and understand the following concepts and content. |
| number concepts addition and subf | cepts to 100 subtraction to 100 | number concepts to 1000 addition and subtraction to 1000 one-step addition and subtraction equations with an unknown number fractions | number concepts to 10 000 addition and subtraction to 10 000 decimals to hundredths, including addition and subtraction one-step equations with an unknown number ordering and comparing fractions |
| nents and attributes • repeating and inc | d increasing patterns | multiplication and division of single-digit numbers increasing and decreasing patterns | multiplication and division of two- or three-digit numbers by one-digit numbers increasing and decreasing patterns, including use of charts, graphs, and tables |
| | lationship through change using numbers and/or symbols | monetary denominations, using coins and bills | pattern rules with words and numbers monetary calculations, purchasing and change |
| | | measurement using standard units | perimeter of simple regular and irregular shapes |
| r companing time t | and 2D shapes, based on multiple attributes | standard units of time 2D shapes and 3D objects, based on faces, edges, and vertices properties of charge (or Potentia will not shape a reposition) | how to tell time with analogue and digital clocks, using 12- and 24-hour clocks polygons line currents. |
| | | | Inne symmetry one-to-one correspondence and many-to-one correspondence, using bar graphs, |
| n one attribute • 3D objects and 2 • relative positions | | and the state of t | pictographs, charts, and tables |
| ex ity | values of cc symbolic results and on one attribute ration values of cc symbolic results and one attribute measure by comparing time one attribute 3D objects and one symbolic results and one symbolic results are symbolic results. | values of coins symbolic relationship through change using numbers and/or symbols symbolic representation of equality and inequality sed on one attribute ration measure by using single and multiple copies of a non-standard unit comparing time using non-standard duration 3D objects and 2D shapes, based on multiple attributes relative positions, including distance | • repeating and increasing patterns • repeating and increasing patterns • values of coins • symbolic relationship through change using numbers and/or symbols • symbolic representation of equality and inequality • measure by using single and multiple copies of a non-standard unit • comparing time using non-standard duration one attribute • 3D objects and 2D shapes, based on multiple attributes • relative positions, including distance • multiplication and division of single-digit numbers • increasing and decreasing patterns • monetary denominations, using coins and bills • monetary denominations, using coins and bills • measurement using standard units • standard units of time • 2D shapes and 3D objects, based on faces, edges, and vertices • preservation of shape (ex. Rotating will not change properties) |

BC Draft Curriculum - Mathematics - Progressive Matrix

PROGRESSION IS HIGHLIGHTED IN THE FOLLOWING DOCUMENT VIA BOLDED TEXT.

| | <u> </u> | | | |
|---|--|---|--|--|
| Grade 5 BIG IDEAS | Grade 6 BIG IDEAS | Grade 7 BIG IDEAS | Grade 8 BIG IDEAS | Grade 9 BIG IDEAS |
| BIG IDEAS | Numbers tell us how many or how much of both very large and very small | | Proportional reasoning helps us make sense of how quantities are | BIG IDEAS |
| Numbers represent values that can be used in calculations and expressed in many | quantities. | Parts of wholes can be represented in many ways that have important connections. | related in real-life contexts. | |
| ways. | Understanding whole-number operations helps us make sense of and use operations with decimal number. | Understanding whole-number operations helps us make sense of and do these operations with fractions and integers. | Understanding whole-number multiplication and division helps us make sense of and do these operations with fractions and integers. | |
| | Shapes can be described and classified by many properties, including their angles. | Circles of all sizes contain and share important relationships. | We can make sense of 3D objects through different perspectives. | |
| Attributes of objects and shapes can be used to predict spatial relationships. | Transformations describe meaningful spatial relationships. | Linear relations can be represented in many ways that have important connections. | Linear relations can be represented in many ways that have important connections. | Linear relations can be represented in many ways that have important connections. |
| | | | Data collection and representation help us communicate with others. | |
| | | Different measures and uses of data help us compare and interpret information | | |
| Patterns can be expressed with algebraic variables and symbols to represent problems and solutions. | Relationships in patterns can be represented in many ways, and these representations have important connections. | | | |
| Time is arranged into predictable units that allow for planning and problem solving | | | | |
| Chance and uncertainty are used to inform decisions in everyday life | | | | |
| than the tree tanks are the tree to the tree to the tree tree tree tree tree tree tree | | | | Through inquiry, we explore mathematics flexibly, creatively, and reflectively. People can solve problems and express their mathematical thinking in a range of forms. |
| | | | | Topics in mathematics are interconnected and interrelated. |
| Curricular Competencies | Curricular Competencies | Curricular Competencies | Curricular Competencies | Curricular Competencies |
| Students will be able to problem solve. Analyzing a problem | Students will be able to problem solve. Analyzing a problem | Students will be able to problem solve. Analyzing a problem | Students will be able to problem solve. Analyzing a problem | Students will be able to problem solve. Analyzing a problem - Engage in multiple strategies to solve problems in both abstract and real-life situations |
| | | | | • Estimate and determine the reasonableness of values |
| | | | | Develop and apply mental math strategies to determine decimal and fraction calculations, deepen understanding, and reinforce whole number computational fluency |
| Reasoning and proof | Reasoning and proof | Reasoning and proof | Reasoning and proof | Reasoning and proof Inductively and deductively reason and use logic to explore, make connections, predict, analyze, generalize, and make conclusions |
| Communicating | Communicating | Communicating | Communicating | Communicating Communicate concretely, pictorially, symbolically, and using spoken and written language to express, describe, explain, represent, clarify, modify, reinforce, apply, defend, |
| Connecting | Connecting | Connecting | Connecting | and extend mathematical ideas Connecting |
| | | | | Visualize and describe mathematical concepts Connect mathematical concepts to each other and make mathematical connections to the real world |
| | | | | Explore, demonstrate, apply, and connect mathematical concepts incorporated in other disciplines |
| Representing | Representing | Representing | Representing | Representing - Describe, create, and interpret relationships through concrete, pictorial, and symbolic representations |
| | | | | Úse technology appropriately to explore, illustrate, examine relationships, test conjectures, solve problems, record, communicate and represent thinking |
| Concepts and Content | Concepts and Content | Concepts and Content | Concepts and Content | Concepts and Content |
| Students will know and understand the following concepts and content. | Students will know and understand the following concepts and content. | Students will know and understand the following concepts and content. | Students will know and understand the following concepts and content. | Students will know and understand the following concepts and content. |
| | | | | numerical and spatial reasoning, logic, and patterns to solve puzzles and games exponents |
| | | | | |
| | | | | personal budgets |
| | | | | factors, prime factors, and numerical radicals |
| | | | | tational and irrational multiplication and division of decimals, fractions, mixed numbers, and integers two-variable linear relations, including graphs, rates of change, functions, and relations |
| | | | | operations with polynomials, of degree less than or equal to two one- and two-step equations with rational coefficients and solutions |
| | | | | multi-step one-variable linear equations and inequalities equations involving distribution |
| | | | | surface area and volume of composite solids |
| | | | | volume of prisms, pyramids, cones, and spheres primary trigonometric ratios |
| | | | | Pythagorean theorem scale diagrams of 2D shapes |
| | | | | data collection, display, and analysis, including population and sample data probability in society |