	Canadian Achievement Tests, Fourth Edition (CAT-4)			
<b>Reading</b> British Columbia Curriculum, 2007	Multiple-Choice Test	Constructed- Response Tasks		
Specific Outcomes	Reading	Vocabulary	Response to Text	
Purposes (Reading and Viewing)				
<ul> <li>B1 read, both collaboratively and independently, to comprehend a variety of literary texts, including</li> <li>literature reflecting a variety of times, places, and perspectives</li> <li>literature reflecting a variety of prose forms</li> <li>poetry in a variety of narrative and lyric forms</li> <li>significant works of Canadian literature (e.g., the study of plays, short stories, poetry, or novels)</li> <li>traditional forms from Aboriginal and other cultures</li> <li>student-generated material</li> </ul>	10			
<ul> <li>B2 read, both collaboratively and independently, to comprehend a variety of information and persuasive texts with increasing complexity of ideas and form, such as</li> <li>articles and reports</li> <li>biographies and autobiographies</li> <li>textbooks, magazines, and newspapers</li> <li>print and electronic reference material</li> <li>advertising and promotional material</li> <li>opinion-based material</li> <li>student-generated material</li> </ul>				
<ul> <li>B3 view, both collaboratively and independently, to comprehend a variety of visual texts, such as</li> <li>broadcast media</li> <li>web sites</li> <li>graphic novels</li> <li>film and video</li> <li>photographs</li> <li>art</li> <li>visual components of print media</li> <li>student-generated material</li> </ul>				
<ul> <li>B3 view, both collaboratively and independently, to comprehend a variety of visual texts, such as</li> <li>broadcast media</li> <li>web sites</li> <li>graphic novels</li> <li>film and video</li> <li>photographs</li> <li>art</li> <li>visual components of print media</li> <li>student-generated material</li> </ul>	22			
B4 independently select and read, for sustained periods of time, texts for enjoyment and to increase fluency				





	Canadian Achievement Tests, Fourth Edition (C			
<b>Reading</b> British Columbia Curriculum, 2007	Multiple-Choice Test	Constructed- Response Tasks		
Specific Outcomes	Reading	Vocabulary	Response to Text	
Strategies (Reading and Viewing)	_			
<ul> <li>B5 before reading and viewing, select and use a range of strategies to anticipate content and construct meaning, including</li> <li>interpreting a task</li> <li>setting a purpose</li> <li>accessing prior knowledge</li> <li>making logical predictions</li> <li>generating guiding questions</li> </ul>	18			
<ul> <li>B6 during reading and viewing, select and use a range of strategies to construct, monitor, and confirm meaning, including</li> <li>predicting, questioning, visualizing, and making connections</li> <li>making inferences and drawing conclusions</li> <li>differentiating main ideas and supporting details</li> <li>summarizing</li> <li>using text features</li> <li>determining the meaning of unknown words and phrases</li> <li>self-monitoring and self-correcting</li> </ul>	2, 4, 11, 13, 15, 20, 23, 28, 30, 48			
<ul> <li>B7 after reading and viewing, select and use a range of strategies to extend and confirm meaning, including</li> <li>responding to text</li> <li>asking questions</li> <li>reviewing text and purpose for reading</li> <li>making inferences and drawing conclusions</li> <li>summarizing, synthesizing, and applying ideas</li> </ul>	1, 3, 9, 14, 17, 21, 24, 27, 31, 35, 43			
Thinking (Reading and Viewing)				
<ul> <li>B8 explain and support personal responses to texts, by</li> <li>making connections with prior knowledge and experiences</li> <li>describing reactions and emotions</li> <li>generating thoughtful questions</li> <li>offering and supporting opinions using evidence</li> </ul>	5, 8, 16, 19, 25, 34, 45			
<ul> <li>B9 interpret, analyse, and evaluate ideas and information from texts, by</li> <li>making and supporting judgments</li> <li>examining and comparing ideas and elements within and among texts</li> <li>beginning to identify diverse voices</li> <li>identifying bias, contradictions, and non-represented perspectives</li> </ul>	6, 7, 26, 32, 40, 44, 46			
<ul> <li>B10 synthesize and extend thinking about texts, by</li> <li>personalizing ideas and information</li> <li>explaining relationships among ideas and information</li> <li>applying new ideas and information</li> <li>transforming existing ideas and information</li> </ul>	41, 47			





	Canadian Achievement Tests, Fourth Edition (CAT-4)			
<b>Reading</b> British Columbia Curriculum, 2007	Multiple-Choice Test	Constructed- Response Tasks		
Specific Outcomes	Reading	Vocabulary	Response to Text	
<ul> <li>B11 use metacognitive strategies to reflect on and assess their reading and viewing, by</li> <li>referring to criteria</li> <li>setting goals for improvement</li> <li>creating a plan for achieving goals</li> <li>evaluating progress and setting new goals</li> </ul>				
Features (Reading and Viewing)				
<ul> <li>B12 recognize and explain how structures and features of text shape readers' and viewers' construction of meaning, including</li> <li>form and genre</li> <li>functions of text</li> <li>literary elements</li> <li>literary devices</li> <li>use of language</li> <li>non-fiction elements</li> <li>visual/artistic devices</li> </ul>	29, 33, 37, 39			
<ul> <li>B13 demonstrate increasing word skills and vocabulary knowledge, by</li> <li>analysing the origins and roots of words</li> <li>determining meanings and uses of words based on context</li> <li>identifying, selecting, and using appropriate academic and technical language</li> <li>using vocabulary appropriate to audience and purpose</li> </ul>	12, 36, 38, 42	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40		





	Canadian Ach	nievement Tests,	Fourth Edition (CAT-4)
<b>Writing</b> British Columbia Curriculum, 2007	Multiple-Choi	ce Tests	Constructed-Response Tasks
Specific Outcomes	Writing Conventions	Spelling	Writing
Purposes (Writing and Representing			
<ul> <li>C1 write meaningful personal texts that explore ideas and information to</li> <li>experiment</li> <li>express self</li> <li>make connections</li> <li>reflect and respond</li> <li>remember and recall</li> </ul>			
<ul> <li>C2 write purposeful information texts that express ideas and information to</li> <li>explore and respond</li> <li>record and describe</li> <li>analyse and explain</li> <li>persuade</li> <li>engage</li> </ul>			
<ul> <li>C3 write effective imaginative texts to explore ideas and information to</li> <li>make connections and develop insights</li> <li>explore literary forms and techniques</li> <li>experiment with language and style</li> <li>engage and entertain</li> </ul>			
<ul> <li>C4 create thoughtful representations that communicate ideas and information to</li> <li>explore and respond</li> <li>record and describe</li> <li>explain and persuade</li> <li>engage</li> </ul>			
Strategies (Writing and Representing)			
<ul> <li>C5 select and use a range of strategies to generate, develop, and organize ideas for writing and representing, including</li> <li>making connections</li> <li>setting a purpose and considering audience</li> <li>gathering and summarizing ideas from personal interest, knowledge, and inquiry</li> <li>analysing writing samples or models</li> <li>setting class-generated criteria</li> </ul>			
<ul> <li>C6 select and use a range of drafting and composing strategies while writing and representing, including</li> <li>using a variety of sources to collect ideas and information</li> <li>generating text</li> <li>organizing ideas and information</li> <li>analysing writing samples or models</li> <li>creating and consulting criteria</li> </ul>			
<ul> <li>C7 select and use a range of strategies to revise, edit, and publish writing and representing, including</li> <li>checking work against established criteria</li> <li>enhancing supporting details and examples</li> <li>refining specific aspects and features of text</li> <li>proofreading</li> </ul>	28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40		





	Canadian Ach	nievement Tests,	Fourth Edition (CAT-4)
Writing	Multiple-Choi	ce Tests	Constructed-Response Tasks
British Columbia Curriculum, 2007 Specific Outcomes	Writing Conventions	Spelling	Writing
Thinking (Writing and Representing)			
<ul> <li>C8 write and represent to explain and support personal responses to texts, by</li> <li>making connections with prior knowledge and experiences</li> <li>describing reactions and emotions</li> <li>generating thoughtful questions</li> <li>developing opinions using evidence</li> </ul>			
<ul> <li>C9 write and represent to interpret, analyse, and evaluate ideas and information from texts, by</li> <li>making and supporting judgments</li> <li>examining and comparing ideas and elements within and among texts</li> <li>identifying diverse points of view</li> <li>identifying bias, contradictions, and non-represented perspectives</li> </ul>			
<ul> <li>C10 write and represent to synthesize and extend thinking, by</li> <li>personalizing ideas and information</li> <li>explaining relationships among ideas and information</li> <li>applying new ideas and information</li> <li>transforming existing ideas and information</li> </ul>			
<ul> <li>C11 use metacognitive strategies to reflect on and assess their writing and representing, by</li> <li>relating their work to criteria</li> <li>setting goals for improvement</li> <li>creating a plan for achieving goals</li> <li>evaluating progress and setting new goals</li> </ul>			
Features (Writing and Representing)			
<ul> <li>C12 use and experiment with elements of style in writing and representing, appropriate to purpose and audience, to enhance meaning and artistry, including</li> <li>syntax and sentence fluency</li> <li>diction</li> <li>point of view</li> <li>literary devices</li> <li>visual/artistic devices</li> </ul>	20, 21, 22, 23, 24, 25, 26, 27		
<ul> <li>C13 use and experiment with elements of form in writing and representing, appropriate to purpose and audience, to enhance meaning and artistry, including</li> <li>organization of ideas and information</li> <li>text features and visual/artistic devices</li> </ul>			
<ul> <li>C14 use conventions in writing and representing, appropriate to purpose and audience, to enhance meaning and artistry, including</li> <li>grammar and usage</li> <li>punctuation, capitalization, and Canadian spelling</li> <li>copyright and citation of references</li> <li>presentation/layout</li> </ul>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	$\begin{array}{c}1,2,3,4,5,6,\\7,8,9,10,11,\\12,13,14,15,\\16,17,18,19,\\20,21,22,23,\\24,25,26,27,\\28,29,30\end{array}$	





	Canadian Achievement Tests, Fourth Edition (CAT-4			
Mathematics	Multiple-Choice Tests		Constructed-Response Tasks	
British Columbia Curriculum	Mathematics	Computation	Math Processes	
Number				
<ul> <li>A1 demonstrate an understanding of powers with integral bases (excluding base 0) and whole number exponents by</li> <li>representing repeated multiplication using powers</li> <li>using patterns to show that a power with an exponent of zero is equal to one</li> <li>solving problems involving powers</li> <li>[C, CN, PS, R]</li> <li>demonstrate the differences between the exponent and the bas by building models of a given power, such as 2<sup>3</sup> and 3<sup>3</sup></li> <li>explain, using repeated multiplication, the difference between two given powers in which the exponent and base are interchanged (e.g., 10<sup>3</sup> and 3<sup>10</sup>)</li> <li>express a given power as a repeated multiplication</li> <li>express a given repeated multiplication as a power</li> <li>explain the role of parentheses in powers by evaluating a given set of powers (e.g., (-2)<sup>4</sup>, (-2<sup>4</sup>) and -2<sup>4</sup>)</li> <li>demonstrate, using patterns, that a<sup>0</sup> is equal to 1 for a given value of a(a≠0)</li> <li>evaluate powers with integral bases (excluding base 0) and whole number exponents</li> </ul>		4, 19, 34		
<ul> <li>A2 demonstrate an understanding of operations on powers with integral bases (excluding base 0) and whole number exponents</li> <li>[C, CN, PS, R, T]</li> <li>explain, using examples, the exponent laws of powers with integral bases (excluding base 0) and whole number exponents: <ul> <li>(a<sup>m</sup>) (a<sup>n</sup>) = a<sup>m+n</sup></li> <li>a<sup>m</sup> + a<sup>n</sup> = a<sup>m+n</sup>, m&gt;n</li> <li>(a<sup>m</sup>)<sup>n</sup> = a<sup>mn</sup></li> <li>(a<sup>b</sup>)<sup>n</sup> = a<sup>m</sup>b<sup>m</sup></li> <li>(a<sup>b</sup>)<sup>n</sup> = a<sup>n</sup>, b≠0</li> </ul> </li> <li>evaluate a given expression by applying the exponent laws</li> <li>determine the sum of two given powers (e.g., 5<sup>2</sup>+5<sup>3</sup>) and record the process</li> <li>identify the error(s) in a given simplification of an expression involving powers</li> </ul>	42, 43	18, 20, 31		





	Canadian Achievement Tests, Fourth Edition (CAT				
Mathematics	Multiple-Choice Tests		Multiple-Choice Tests		Constructed-Response Tasks
British Columbia Curriculum	Mathematics	Computation	Math Processes		
A3 demonstrate an understanding of rational numbers by - comparing and ordering rational numbers - solving problems that involve arithmetic operations on rational numbers [C, CN, PS, R, T, V]		2, 9, 13, 25			
<ul> <li>order a given set of rational numbers, in fraction and decimal form, by placing them on a number line (e.g., 3/5, -0.666, 0.5, -5/8)</li> </ul>					
<ul> <li>identify a rational number that is between two given rational numbers</li> <li>solve a given problem involving operations on rational numbers in fraction form and decimal form</li> </ul>					
A4 explain and apply the order of operations, including exponents, with and without technology [PS, T]		7, 8, 11, 13, 23, 24, 27, 29, 33, 36			
<ul> <li>solve a given problem by applying the order of operations without the use of technology</li> <li>solve a given problem by applying the order of operations with the use of technology</li> <li>identify the error in applying the order of operations in a given incorrect solution</li> </ul>					
A5 determine the square root of positive rational numbers that are perfect squares [C, CN, PS, R, T]		10			
<ul> <li>determine whether or not a given rational number is a square number and explain the reasoning</li> <li>determine the square root of a given positive rational number that is a perfect square</li> <li>identify the error made in a given calculation of a square root (e.g., Is 3.2 the square root of 6.4?)</li> <li>determine a positive rational number given the square root of that positive rational number</li> </ul>					
A6 determine an approximate square root of positive rational numbers that are non-perfect squares [C, CN, PS, R, T]					
<ul> <li>estimate the square root of a given rational number that is not a perfect square, using the roots of perfect squares as benchmarks</li> <li>determine an approximate square root of a given rational number that is not a perfect square using technology (e.g., calculator, computer)</li> <li>explain why the square root of a given rational number as shown on a calculator may be an approximation</li> <li>identify a number with a square root that is between two given numbers</li> </ul>					
Foundational Number Skills	11, 13, 57	1, 3, 12, 14, 15, 16, 17, 21, 22, 28			





	Canadian Achievement Tests, Fourth Edition (CA		
Mathematics	Multiple-Choi	ce Tests	Constructed-Response Tasks
British Columbia Curriculum	Mathematics	Computation	Math Processes
Patterns and Relations			
<ul> <li>B1 generalize a pattern arising from a problem-solving context using linear equations and verify by substitution</li> <li>[C, CN, PS, R, V]</li> <li>write an expression representing a given pictorial, oral, or written pattern</li> <li>writer a linear equation to represent a given context</li> <li>describe a context for a given linear equation</li> <li>solve, using a linear equation, a given problem that involves pictorial, oral, and written linear patterns</li> <li>write a linear equation representing the pattern in a given table of values and verify the equation by substituting values from the table</li> </ul>	7, 8, 9, 12, 15, 23, 25, 29, 31, 45, 47, 53, 54		
<ul> <li>B2 graph linear relations, analyse the graph, and interpolate or extrapolate to solve problems</li> <li>[C, CN, PS, R, T, V]</li> <li>describe the pattern found in a given graph</li> <li>graph a given linear relation, including horizontal and vertical lines</li> <li>match given equations of linear relations with their corresponding graphs</li> <li>extend a given graph (extrapolate)to determine the value of an unknown element</li> <li>interpolate the approximate value of one variable on a given graph given the value of the other variable</li> <li>extrapolate the approximate value of one variable from a given graph given the value of the other variable</li> <li>solve a given problem by graphing a linear relation and analysing the graph</li> </ul>	3, 6, 17, 22, 27, 37, 38, 41, 56, 58, 59		
<ul> <li>B3 model and solve problems using linear equations of the form</li> <li>-ax = b</li> <li>-x/a = b, a ≠ 0</li> <li>-ax + b = c</li> <li>-x/a + b = c, a ≠ 0</li> <li>-ax = b + cx</li> <li>-a(x + b) = c</li> <li>-ax + b = cx + d</li> <li>-a(bx + c) = d(ex + f)</li> <li>-a/x = b, x ≠ 0</li> <li>where a, b, c, d, e, and f are rational numbers</li> <li>[C, CN, PS, V]</li> <li>model the solution of a given linear equation using concrete or pictorial representations, and record the process</li> <li>determine, by substitution, whether a given rational number is a solution to a given linear equation</li> <li>solve a given linear equation symbolically</li> <li>identify and correct an error in a given incorrect solution of a linear equation</li> <li>solve a given problem using a linear equation</li> <li>solve a given problem using a linear equation and record the process</li> </ul>	4, 5, 14, 18, 35	5, 6, 25, 32, 35	





	Canadian Achievement Tests, Fourth Edition (CAT-4)			
Mathematics	Multiple-Choi	ce Tests	Constructed-Response Tasks	
British Columbia Curriculum	Mathematics	Computation	Math Processes	
B4 explain and illustrate strategies to solve single variable linear inequalities with rational coefficients within a problem-solving context [C, CN, PS, R, V]				
<ul> <li>translate a given problem into a single variable linear inequality using the symblos , &gt;, &lt; or</li> <li>determine if a given rational number is a prossible solution of a given linear inequality</li> <li>generalize and apply a rule for adding or subtracting a positive or negative number to determine the solution of a given inequality</li> <li>generalize and apply a rule for multiplying or dividing by a positive or negative number to determine the solution of a given inequality</li> <li>solve a given linear inequality algebraically and explain the process orally or in written form</li> <li>compare and explain the process for solving a given linear inequality</li> <li>graph the solution of a given linear inequality on a number line</li> <li>compare and explain the solution of a given linear equation to the solution of a given linear inequality</li> <li>graph the solution of a given linear inequality</li> <li>verify the solution of a given linear inequality using substitution for multiple elements in the solution</li> <li>solve a given problem involving a single variable linear inequality and graph the solution</li> </ul>				
<ul> <li>B5 demonstrate an understanding of polynomials (limited to polynomials of degree less than or equal to 2)</li> <li>[C, CN, R, V]</li> <li>create a concrete model or a pictorial representation for a given polynomial expression</li> <li>write the expression for a given model of a polynomial</li> <li>identify the variables, degree, number of terms, and coefficients, including the constant term, of a given simplified polynomial expression</li> <li>describe a situation for a given first degree polynomial expression</li> <li>match equivalent polynomial expressions given in simplified form <ul> <li>(e.g., 4x - 3x<sup>2</sup> + 2 is equivalent to -3x<sup>2</sup> + 4x +2)</li> </ul> </li> </ul>	44			





	Canadian Achievement Tests, Fourth Edition (CAT·4)			
Mathematics			Constructed-Response Tasks	
British Columbia Curriculum	Mathematics	Computation	Math Processes	
<ul> <li>B6 model, record, and explain the operations of addition and subtraction of polynomial expressions, concretely, pictorially, and symbolically (limited to polynomials of degree less than or equal to 2)</li> <li>[C, CN, PS, R, V]</li> <li>model addition of two given polynomial expressions concretely or pictorially and record the process</li> </ul>	45, 52			
<ul> <li>sympbilically</li> <li>model subtraction of two given polynomial expressions concretely or pictorially and record the process symbolically</li> <li>apply a personal strategy for addition and subtraction of given polynomial expressions, and record the process</li> </ul>				
<ul> <li>symbolically</li> <li>identify equivalent polynomial expressions from a given set of polynomial expressions, including pictorial and symbolic representations</li> <li>identify the error(s) in a given simplification of a given polynomial expression</li> </ul>				
B7 model, record, and explain the operations of multiplication and division of polynomial expressions (limited to polynomials of degree less than or equal to 2) by monomials, concretely, pictorially, and symbolically [C, CN, R, V]	49, 50			
Foundational Patterning and Algebra	14, 24, 40, 46			
Shape and Space				
<ul> <li>C1 solve problems and justify the solution strategy using circle properties, including</li> <li>the perpendicular from the centre of a circle to a chord bisects the chord</li> <li>the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc</li> <li>the inscribed angles subtended by the same arc are congruent</li> <li>a tangent to a circle is perpendicular to the radius at the point of tangency</li> <li>[C, CN, PS, R, T, V]</li> </ul>	30			
<ul> <li>provide and example that illustrates <ul> <li>the perpendicular from the centre of a circle to chord bisects the chord</li> <li>the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc</li> <li>the inscribed angles subtended by the same arc are congruent</li> <li>a tangent to a circle is perpendicular to the radius at the point of tangency</li> </ul> </li> <li>solve a given problem involving application of one or more of the circle properties</li> <li>explain the relationship among the centre of a circle a</li> </ul>				
• explain the relationship among the centre of a circle, a chord, and the perpendicular bisector of the chord				





	Canadian Achievement Tests, Fourth Edition (CAT·4)			
Mathematics British Columbia Curriculum	Multiple-Choi	ce Tests	Constructed-Response Tasks	
	Mathematics	Computation	Math Processes	
C2 determine the surface area of composite 3-D objects to solve problems [C, CN, PS, R, V]	10, 26, 51			
<ul> <li>determine the area of overlap in a given concrete composite 3-D object, and explain its effect on determining the surface area (limited to right cylinders, right rectangular prisms, and right triangular prisms)</li> <li>determine the surface area of a given concrete composite 3-D object (limited to right cylinders, rifght rectangular prisms, and right triangular prisms)</li> <li>solve a given problem involving surface area</li> </ul>				
<ul> <li>C3 demonstrate an understanding of similarity of polygons</li> <li>[C, CN, PS, R, V]</li> <li>determine if the polygons in a given pre-sorted set are similar and explain the reasoning</li> <li>draw a polygon similar to a given polygon and explain why the two are similar</li> <li>solve a given problem using the properties of similar polygons</li> </ul>				
<ul> <li>C4 draw and interpret scale diagrams of 2-D shapes</li> <li>[CN, R, T, V]</li> <li>identify an example in print and electronic media (e.g., newspapers, the internet) of a scale diagram and interpret the scale factor</li> <li>draw a diagram to scale that represents an enlargement or reduction of a given 2-D shape</li> <li>determine the scale factor for a given diagram drawn to scale</li> <li>determine if a given diagram is proportional to the original 2-D shape and, if it is, state the scale factor</li> <li>solve a given problem that involves a scale diagram by applying the properties of similar triangles</li> </ul>				





	Canadian Achievement Tests, Fourth Edition (CAT·4)			
Mathematics	Multiple-Choi	ce Tests	Constructed-Response Tasks	
British Columbia Curriculum	Mathematics	Computation	Math Processes	
C5 demonstrate an understanding of line and rotation symmetry [C, CN, PS, V]				
<ul> <li>classify a given set of 2-D shapes or designs according to the number of lines of symmetry</li> <li>complete a 2-D shape or design given one half of the shape or design and a line of symmetry</li> <li>determine if a given 2-D shape or design has rotation symmetry about the point at the center of the shape or design and, if it does, state the order and angle of rotation</li> <li>rotate a given 2-D shape about a vertex and draw the resulting image</li> <li>identify a line of symmetry or the order and angle or rotation symmetry in a given tessellation</li> <li>identify the type of symmetry that arises from a given transformation on the Cartesian plane</li> <li>complete, concretely or pictorially, a given transformation of a 2-D shape on a Cartesian plane, record the coordinates, and describe the type of symmetry that results</li> <li>identify and describe the types of symmetry created in a given piece of artwork</li> <li>determine whether or not two given 2-D shapes on the Cartesian plane are related by either rotation or line symmetry</li> <li>draw, on a Cartesian plane, the translation image of a given shape using a given translation rule, such as R2, U3, or → →, ↑ ↑ ↑, label each vertex and its corresponding ordered pair, and describe why the translation does not result in line or rotation symmetry</li> </ul>				
symmetry and the order and angle of rotation Foundational Shape and Space	1, 2, 16, 19, 30,			
	32, 33, 34, 39, 48, 55			
Statistics and Probability				
<ul> <li>D1 describe the effect of <ul> <li>bias</li> <li>use of language</li> <li>ethics</li> <li>cost</li> <li>time and timing</li> <li>privacy</li> <li>cultural sensitivity on the collection of date</li> <li>[C, CN, R, T]</li> </ul> </li> <li>analyse a given case study of data collection, and identify potential problems related to bias, use of language, ethics, cost, time and timing, privacy, or cultural sensitivity</li> <li>provide examples to illustrate how bias, use of language, ethics, cost, time and timing, privacy, or cultural sensitivity</li> </ul>	20, 28			





<b>Mathematics</b> British Columbia Curriculum	Canadian Achievement Tests, Fourth Edition (CAT·4)			
	Multiple-Choice Tests		Constructed-Response Tasks	
	Mathematics	Computation	Math Processes	
<ul> <li>D2 select and defend the choice of using either a population or a sample of a population to answer a question [C, CN, PS, R]</li> <li>identify whether a given situation represents the use of a sample or a population</li> <li>provide an example of a situation in which a population may be used to answer a question and justify the choice</li> <li>provide an example of a question where a limitation precludes the use of a population and describe the limitation (e.g., too costly, not enough time, limited resources)</li> <li>identify and critique a given example in which a generalization from a sample of a population may or may not be valid for the population</li> </ul>				
<ul> <li>D3 develop and implement a project plan for the collection, display, and analysis of data by</li> <li>formulating a question for investigation</li> <li>choosing a data collection method that includes social considerations</li> <li>selecting a population or a sample</li> <li>collecting the date</li> <li>displaying the collected data in an appropriate manner</li> <li>drawing conclusions to answer the question</li> <li>[C, PS, R, T, V]</li> </ul>	21, 37, 38			
<ul> <li>create a rubric to assess a project that includes the assessment of <ul> <li>a question for investigation</li> <li>the choice of a data collection method that includes social considerations</li> <li>the selection of a population or a sample and justifying the choice</li> <li>the display of the collected date</li> <li>the conculsions to answer the question</li> </ul> </li> <li>develop a project plan that describes <ul> <li>a question for investigation</li> <li>the method of data collection that includes social considerations</li> <li>the method for selecting a population or a sample</li> <li>the method to be used for collection of the data</li> <li>the methods for analysis and display of the data</li> </ul> </li> <li>complete the project according to the plan, draw conclusions, and communicate findings to an audience</li> <li>self-assess the completed project by applying the rubric</li> </ul>				





<b>Mathematics</b> British Columbia Curriculum	Canadian Achievement Tests, Fourth Edition (CAT·4)			
	Multiple-Choice Tests		Constructed-Response Tasks	
	Mathematics	Computation	Math Processes	
<ul> <li>D4 demonstrate an understanding of the role of probability in society</li> <li>[C, CN, R, T]</li> <li>provide an example from print and electronic media (e.g., newspapers and the Internet), where probability is used</li> <li>identify the assumptions associated with a given probability and explain the limitations of each assumption</li> <li>explain how a single probability can be used to support oppsing positions</li> <li>explain, using examples, how decisions based on probability may be a combination of theoretical probability, experimental probability, and subjecgtive judgment</li> </ul>	36			
Foundational Data Management	60			



