



CAMI Mathematics Literacy CAPS

GRADE 12 CAPS Curriculum		
Numbers and calculations with numbers		
	<p>Number concepts to be used in the context of:</p> <ul style="list-style-type: none">• Finance – personal, household, business, workplace, national and global finance.• Measurement – complex tasks in familiar contexts and unfamiliar context.• Maps, plans and other representations of the physical world → maps and plans of possibly unfamiliar contexts and/or complex structures.• Data handling → data related to the personal lives of learners, wider social issues and national/global issues.• Probability → games with coins and dice, weather predictions, tests where there is the chance of inaccurate results, cosmetic and other products.	
Interpreting answers	<ul style="list-style-type: none">• Check the appropriateness of a solution by comparing it to the estimated solution.• Modify the solution as required by the context of the problem.• Round numbers up, down or off depending on the requirements of the context.• Determine the most appropriate units in which to express the answer.• Rework a problem if the initial conditions change.• Recognize that an error in measurement or a small change in rounding can make a large difference to an answer.	



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<p>Communication</p>	<ul style="list-style-type: none"> • Communicate solutions using appropriate terminology, symbols and units. • Clearly state workings and methods used for solving a problem. • Justify comparisons and opinions with calculations or with information provided in the context. 	
<p>Number formats and conversions</p>	<p>Number formats:</p> <ul style="list-style-type: none"> • Decimal comma, thousands separator, positive and negative numbers as directional indicators: numbers in word format. • Number conventions (e.g. different numbering conventions used in cricket or in flat numbering systems). 	
<p>Operations using numbers and calculator skills</p>	<ul style="list-style-type: none"> • Estimate anticipated solutions to calculations. • Addition, subtraction, multiplication and division of whole numbers and decimals. • Multiplication and division by 10, 100 and 1 000 without the use of a calculator. • Order of operations (BODMAS) and brackets. • Addition and multiplication facts (distributive and associative properties). • Squaring, cubing, square rooting. • Operations using fractions. <p>Know and use the different functions on a basic calculator.</p> <ul style="list-style-type: none"> - + / - / x/ ÷ - % - Memory (M+, M-, MRC) - Clear (C) 	<p>1.1.1 tot 1.1.1.4 1.1.2.1 tot 1.1.2.3 1.1.3.1 tot 1.1.3.3 1.1.4 1.1.5 1.1.6 1.1.7.1 1.1.7.2 1.1.7.3 1.1.8.1 1.1.9</p>



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	- Clear all (CE)	
Rounding	Round values in the following way: <ul style="list-style-type: none">• Off (to a specific number)• Off to the nearest 5• Up• down	1.2
Ratios	Perform the following calculations involving ratios: <ul style="list-style-type: none">• Convert between different forms of ratio.• Determine missing numbers in a ratio.• Divide or share an amount in a given ratio. Perform calculations with an understanding of: <ul style="list-style-type: none">• Different formats for expressing ratios e.g. 1:50 and/or $\frac{1}{50}$• Why no units are included in a ratio.• Equivalent ratios (e.g. 1:50 = 2:100)• How to write in unit form (e.g. 3:8 can be written as 1:2.667)	1.3.1 1.3.2 1.3.3
Proportion	Perform calculations involving: <ul style="list-style-type: none">• Direct proportion• Indirect proportion	1.4.1 to 1.4.5
Rates	Calculate the following types of rates: <ul style="list-style-type: none">• Cost rates• Consumption rates• Distance, time and speed rates• More complex rates	1.5.1 1.5.2 1.5.3 1.5.4 1.5.5
Percentages	Perform the following percentage calculations: <ul style="list-style-type: none">• Calculate a percentage of a value.• Increase value by a percentage.• Decrease a value by a percentage.	1.6.1 1.6.2 1.6.3 1.6.4 1.6.5



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	<ul style="list-style-type: none">• Express a part of a whole as a percentage.• Determine percentage increase and/or decrease.• Determine the original value when given a value to which a percentage has been added or subtracted. An understanding of: <ul style="list-style-type: none">• The equivalence of the different forms.• How to move interchangeably from fractions to percentage.• How to convert from percentages to decimals with the use of a calculator.	1.6.6 1.6.7
Patterns, relationships and representation		
	Contexts: <ul style="list-style-type: none">• Constant, linear, inverse proportion, exponential (compound growth) and other non-linear relationships appropriate to contexts as specified in the topics Finance, Measurement, Maps, plans and other representations of the physical world, Data handling and Probability• Two or more relationships in a table or on a set of axes.	
Making sense of graphs that tell a story	Work with a variety of graphs found in newspapers, magazines and other resources. Recognize and describe the meaning of different points on the graph: <ul style="list-style-type: none">• The point where the graph cross the vertical and horizontal axes• Maximum and minimum points on the graph• The point where different graphs	



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	cross	
Patterns and relationships	<ul style="list-style-type: none">• Constant or fixed relationships• Constant differences between terms• Inverse proportion between terms• Constant ratio between terms• Relations containing a combination of the above <p>Describe features of patterns and/or relationships as:</p> <ul style="list-style-type: none">• Independent and dependant variables• Discrete and/or continuous variables• Increasing and/or decreasing relationships• Critical values including maximum, minimum and zero values <p>Techniques to determine missing terms:</p> <ul style="list-style-type: none">• Relationship between consecutive terms• Relationship between the term's p[osition and its value• Formulae provided for calculations	
Representations of relationships in tables, equations and graphs	<p>Understand the following relationships:</p> <ul style="list-style-type: none">• Tables, formulae and graphs can be used for different representation of the same relationship.• How to move between representations of relationships including:<ul style="list-style-type: none">- completing a table of value from a graph- plotting a graph from the values in a table- using a given formula and/or description of a relationship to construct a table of values- matching formulae/equations to graph and/or tables of values of the relationship based on features	



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	<p>and/or trends</p> <ul style="list-style-type: none">• Identify and distinguish between:<ul style="list-style-type: none">- the dependent and independent variables- discrete and/or continuous variables• Identify:<ul style="list-style-type: none">- dependent variable values for given independent variable values- independent variable values for given dependent variable values• Identify independent variable values associated with the critical points of the dependent variable value including:<ul style="list-style-type: none">- zero values- maximum / minimum values• Determine formulae and/or equations to describe relationships represented in tables and/or graphs:<ul style="list-style-type: none">- constant (fixed) relationships- linear relationships- inverse proportion relationships <p>In working with equations of relationships:</p> <ul style="list-style-type: none">• substitution• solving by means of:<ul style="list-style-type: none">- trial and improvement- simple algebraic manipulation <p>In working with graphs of relationships:</p> <ul style="list-style-type: none">• drawing graphs:<ul style="list-style-type: none">- plotting points from a table constructed from a given equation- constructing axes with appropriate scale chosen for both vertical and horizontal- labeling the vertical and horizontal axes and the chart appropriately• Interpret graphs• Identify the independent variable values for which two relationships	
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	<p>have the same dependent variable value.</p> <p>Choose and develop the most effective representation (including tables, graphs and/or equations) for solving a problem.</p>	
Working with two or more relationships and/or representations	<p>In situations involving representation of two or more relationships on the same set of axes:</p> <ul style="list-style-type: none">• Identify the values of the dependent variable for which two or more relationships are equal. <p>Solve financial and other problems including:</p> <ul style="list-style-type: none">• Comparing different tariff systems.• Determining break-even values for a business.• Comparing different banking options. <p>Focus on:</p> <ul style="list-style-type: none">• Difference in the rates of change between the dependent and independent variable values.• Differences in the steepness of graphs representing the relationship.• Differences in the constant values in equations and graphs representing the relationship.• The use of the following terms in relation to specific dependent/independent variable values:<ul style="list-style-type: none">- less than- equal to- greater than- more than- between• Making decisions based on a comparison of the representations and explaining solutions by referring to specific dependent and independent variable values.	



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Finance		
	<p>Contexts include those that deal with personal, household, workplace, business, national and global finance, and more complex financial scenarios.</p> <p>Examples;</p> <ul style="list-style-type: none">• “Tax pocket guide” issued by SARS• Buying a car or a house• Student loan• Pension fund or retirement annuity• Funeral policy• Inflation data graphs• Financial documents for provincial and national government• Financial documents for a large business	
Financial documents	<p>Work with the following financial documents:</p> <ul style="list-style-type: none">• Household bills• Shopping documents• Banking documents• Household budgets• Documents relating to workplace and small business finance, including:<ul style="list-style-type: none">- pay slips- budgets- quotations- invoices- receipts- travel allowance/claim forms- banking documents• Documents relating to national/global and more complex financial topics, including:<ul style="list-style-type: none">- tax forms- loan documentation like agreements stating loan conditions and statements from banks and other loan institutions	



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Tariff systems	<p>Work with the following tariff system:</p> <ul style="list-style-type: none">• municipal tariffs• telephone tariffs• transport tariffs <p>Calculate costs using given tariffs and/or formulae.</p> <p>Draw and interpret graphs of various tariffs systems.</p> <p>Compare two or more options for a tariff system to determine the most appropriate option for individuals with particular needs by:</p> <ul style="list-style-type: none">• Performing calculations• Drawing graphs to represent the different options and interpreting the points of intersection and other regions on the graphs in relation to the context.	
Income, expenditure, profit/loss, income-and-expenditure statements and budgets	<p>Personal expenditure:</p> <ul style="list-style-type: none">• Living expenses• Accounts• Telephone• Fees• Insurance• Personal taxes• Loan repayments• Savings <p>Business and/or workplace expenditure:</p> <ul style="list-style-type: none">• Salaries, wages and commission• Running expenses• Investments and savings• Taxes• Expenditure for larger organizations	
Cost price and selling price	<ul style="list-style-type: none">• Determine the cost for production and/or cost price of an item or service, with an understanding of the difference between these two.• Decide on an appropriate selling price for an item and/or service	



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	<p>based on an expected percentage profit.</p> <p>Investigate the running of a small business with consideration of the following:</p> <ul style="list-style-type: none">• Income-and-expenditure statements• Budgets• Break-even analysis• The cost of production, cost price and selling price of an item or service rendered	
Break-even analyses	<p>Determine break-even values using the following methods:</p> <ul style="list-style-type: none">• Drawing two or more graphs on a set of axes and reading off the points of intersection of the graphs.• Trial and improvement through substitution into two or more equations representing the scenario and/or graphs. <p>Understand the following components of break-even analyses:</p> <ul style="list-style-type: none">• The break-even point is always made up of two values.• The relevance/meaning of the break-even values is determined by the context in which the break-even occurs.	
Interest	<p>Work with various banking and other financial documents.</p> <p>Distinguish between:</p> <ul style="list-style-type: none">- interest rate- values- interest values <p>Investigate through calculations how interest values are calculated using interest rate values.</p> <p>Perform calculations involving simple and compound interest.</p> <p>Investigate the following:</p> <ul style="list-style-type: none">• Loan agreements between family	



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	<p>members where repayments are made only once.</p> <ul style="list-style-type: none">• Investments in fixed deposit accounts where the money is deposited and withdrawn from one account only once.• Bank accounts with a changing balance.• Hire purchase agreements and loans where payment is made monthly• Other investments where fixed deposits is made every month	
Banking, loans and investments (banking)	<p>Investigate the following types of bank accounts:</p> <ul style="list-style-type: none">• saving accounts• cheque / current accounts• fixed deposit account• credit account (with a credit card) and debit account (with a debit card)• Compare bank charges of different banks using tariff tables, given formulae and drawn graphs to assess the suitability of different accounts for individuals.• Investigate the advantages and disadvantages of the different types of accounts regarding access to money, bank charges and interest rates.• Investigate the implications of late payments on a credit card account.• Investigate the different ways in which interest is calculated on different types of accounts. <p>Investigate the following types of loan and investment scenarios:</p> <ul style="list-style-type: none">• Informal loan agreements between family members.• Investments in fixed deposit	



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	<p>accounts where the money is deposited and withdrawn from the account only once.</p> <ul style="list-style-type: none">• Hire-purchase agreements.• Loans from banks and micro-lenders where is a monthly repayments• Investments where there is a monthly deposit, including:<ul style="list-style-type: none">- stokvel- retirement annuities- pension fund- funeral plans	
Inflation	<p>Investigate changes in the prices of goods and/or services. Recognize that:</p> <ul style="list-style-type: none">• Inflation is a measure of the change in the purchase power of money over time.• Inflation represents the average increase in the price of a variety of goods and services over time. <p>Investigate the impact of inflation on:</p> <ul style="list-style-type: none">• Purchasing power• The value of an item over time• The value of money in the bank account and/or investment. <p>Interpret and analyze graphs showing changes in the inflation rate over time and understand that a decreasing graph does not necessarily indicate negative inflation. Evaluate situations involving proposed price increases.</p>	
Taxation	<p>Work with UIF in the context of pay slips. Documents:</p> <ul style="list-style-type: none">• Pay slips• Tables containing income tax brackets and income tax formulae• Tax deduction tables issued by SARS	



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	<ul style="list-style-type: none"> • IRP5 forms • Personal income tax form • Tax rebate <p>Terminology:</p> <ul style="list-style-type: none"> • Gross income • Taxable deductions • Non-taxable deductions • Taxable income • Personal income tax • Net pay 	
Exchange rate	<p>Estimate the value of a currency in relation to other currencies.</p> <p>Recognize the meaning of the terms:</p> <ul style="list-style-type: none"> • Strong • Weak <p>Develop an understanding of the “buying power” of a currency in a particular country.</p> <p>Plan trips to include:</p> <ul style="list-style-type: none"> • A travel budget • Maps and distance tables to organize the travel routes • Bus, train, airplane and taxi timetables and fare tables • Calendars <p>Plan trips, to include:</p> <ul style="list-style-type: none"> • A travel budget • Maps and distance tables to organize travel routes • Bus, train, airplane and taxi timetables and fare tables • Calendars 	
Measurement		
	<p>Complex projects involving measurement concepts integrated with content/skills from other topics in both familiar and unfamiliar contexts.</p> <p>Projects must involve integration of content and/or skills from other topics.</p> <p>Examples:</p>	



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	<ul style="list-style-type: none">• Using plans for a RDP house to determine quantities and cost of materials for the house.• Investigating the number and cost of the tiles needed to tile a floor, taking into consideration the space for grouting between the tiles and cut tiles.• Calculating actual housing density for a suburb, settlement or township and critiquing municipal housing density policies in terms of the findings of this project.• Investigating the size of a dam needed to service a village based on the number of people living in the village, requirements, and data on the annual rainfall in the area.	
Conversions	<p>For all calculations involving measurement:</p> <ul style="list-style-type: none">• convert:<ul style="list-style-type: none">- the metric system: mm – cm – m – km ml – l g – kg – ton- time: Sec – min – hours – days• covert units of measurement using given conversion factors and/or tables:<ul style="list-style-type: none">- for cooking conversions: spoons – ml cups – ml• Between different systems, including:<ul style="list-style-type: none">- metric to imperial units• Solid to liquid conversions, including:<ul style="list-style-type: none">- g and/or kg to ml and/or liters- cm^2 and m^2 to liters- mm^3, cm^3 and m^3 to ml and liters	



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	<ul style="list-style-type: none">• Temperature (from °Celsius to °Fahrenheit) using the formulae:<ul style="list-style-type: none">- $^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32^{\circ}$- $^{\circ}\text{C} = (^{\circ}\text{F} - 32^{\circ}) \div 1.8$	
Measuring length and distance	<p>Measuring instruments, including:</p> <ul style="list-style-type: none">• “rule of thumb” methods• Rulers, measuring tapes, trundle wheels• Odometers• Scales <p>Estimate lengths and/or measure lengths of objects accurately to complete tasks</p> <p>Estimate distances and/or measure distances accurately between objects/positions in space using appropriate maps and scales.</p> <p>Calculate:</p> <ul style="list-style-type: none">• Cost of products• Values using a formula involving length• Perimeter, area and volume• The cost associated with travelling a certain distance• The time taken to complete a journey• Speed (distance travelled in terms of time taken)	
Measuring mass (weights)	<p>Measuring instruments, including:</p> <ul style="list-style-type: none">• Bathroom scales• Kitchen scales• Electronic scales for weighing large objects• Measure out quantities to complete a task.• Monitor and manage mass (weight)• Use recorded mass data together with recorded length, calculated Body Mass Index values and determine weight status for adults.• Use the BMI chart and appropriate	



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	<p>growth charts to monitor growth patterns in children</p> <ul style="list-style-type: none">• Calculate the cost of a certain amount of a product.• Calculate the values using formula involving mass (weight).	
Measuring volume	<p>Measuring instruments, including:</p> <ul style="list-style-type: none">• Measuring spoons and cups• Jugs, bottles and/or canisters• Buckets and wheelbarrows• Measure out quantities to complete a task.• Monitor quantities.• Calculate values using a formula involving volume.• Consumption rates.	
Measuring temperature	<p>Measure, monitor and interpret temperature using instruments, including:</p> <ul style="list-style-type: none">• Thermometer• Temperature dials and indicators• Weather reports• Convert temperature values from degrees Celsius ($^{\circ}\text{C}$) to degrees Fahrenheit ($^{\circ}\text{F}$).	
Calculating perimeter, area and volume	<ul style="list-style-type: none">• Direct measurement (perimeter using rulers, area using grids and volume using measuring jugs).• Calculation for each of the following:<ul style="list-style-type: none">- rectangles, triangles and circles- rectangular prisms and cylinders using known formulae• Making choices regarding cost and/or quantities and/or material used in order to complete a project within the budget	
Time	<p>Read, record and perform calculations involving time values, including:</p>	




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	<ul style="list-style-type: none">• Time value expressed and/or recorded on clocks, watches and stopwatches.• Time values expressed in the following formats:<ul style="list-style-type: none">- time of day formats- time recording formats• Converting between different units of time:<ul style="list-style-type: none">- seconds – minutes – hours- days – weeks – months• Calculating elapsed time involving different time formats.• Calendars showing days, weeks and months.• Time tables including:<ul style="list-style-type: none">- study time tables and television time tables- lesson / exam timetables- transport timetables- Calculate speed (distance in terms of time taken).• Determining departure/arrival and/or start/end times from timetables• Preparing budgets for the trip by making use of relevant maps, timetables and fare tables, vehicle operating cost tables from the AA and other travel resources	
Maps, plans and other representations of the physical world		
	<p>Maps and plans of possibly unfamiliar contexts and/or complex structures and models of packaging containers and buildings.</p> <p>Maps and plans of possibly unfamiliar contexts and/or complex structures.</p> <p>Build 3D scale models of packaging containers and buildings to explore what</p>	



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	<p>the final product will look like.</p> <p>Draw 2D scale pictures of 3D buildings and packaging containers.</p>	
Scales	<ul style="list-style-type: none">• Number scales expressed in the form 1:500• Bar scales expressed in the form  0m 10m 20m• Understand the advantages and disadvantages of each scale• Calculate actual length and distance when map and/or plan measurements are known• Calculate map and/or plan measurements when actual lengths and distances are known using a given scale• Determine the most appropriate scale in which to draw/construct a map, plan and/or model	
Maps	<p>Work with the following maps:</p> <ul style="list-style-type: none">• Map showing the seating plan and/or layout of a classroom.• Map showing the layout of the buildings and/or sports fields at the school.• Map showing the layout of the stores in a shopping centre.• Seating plans for cinemas and a sport stadium.• Street maps with and without a grid reference system• National and provincial road and rail maps• Strip charts showing distances on a portion of road• Elevation maps• Residential or housing estate maps• Work with a combination of maps	



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	<p>showing different perspectives and scales to navigate the route to a destination</p> <p>Interpret the following compass directions:</p> <ul style="list-style-type: none">• “North”, “South”, “West”, “East”• “North-east”, “North-west”, “South-east”, “South-west”	
Plans	<p>Use instruction/assembly diagrams:</p> <ul style="list-style-type: none">• Plugs• Plastic models• Unassembled wooden furniture units• Cell-phones• Electrical appliances• Children’s toys including Lego-type kits	
Plans (floor, elevation and design plans)	<ul style="list-style-type: none">• Understand the symbols and notation used on plans.• Describe what is being represented on the plans.• Analyze the layout of the structure shown on the plan.• Determine actual lengths of objects shown on plans.• Determine quantities of materials needed by using the plans. <p>Understand the terms:</p> <ul style="list-style-type: none">• “North elevation”• “South elevation”• “East elevation”• “West elevation” <p>and the relevance of compass directions in the construction of buildings.</p>	
Models	<p>Build 3-D scale models of packaging containers to investigate packaging arrangements.</p> <p>Draw 2-D scale picture of 3-D packaging</p>	



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	containers.	
Data handling		
	Type of data: <ul style="list-style-type: none">• Multiple sets of data containing multiple categories• Complex values for which estimation may be necessary to determine values on graphs and in tables• Data related to national and global issues	
Developing questions	<ul style="list-style-type: none">• Develop a question or set of questions that requires the collection of two sets of data.• Recognize that the ways questions are phrased can impact on the findings of the investigation.	
Collecting data	Form/instrument for collecting a single set of data: <ul style="list-style-type: none">• Observation• Interview• Questionnaire or survey	
Classifying and organizing data	Classify collected data as: <ul style="list-style-type: none">• Categorical data (e.g. male / female)• Numerical data, further classified as discrete data Sort numerical data according to one category. Organize collected data using: <ul style="list-style-type: none">• Tallies• Frequency tables	
Summarizing Data	<ul style="list-style-type: none">• Mean• Median• Mode• Range• Quartiles and inter-quartile range	



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	<p>values</p> <ul style="list-style-type: none">• Percentiles <p>Understanding the following:</p> <ul style="list-style-type: none">• The function / purpose of the measures of central tendency and / or spread• Measure of central tendency refers to “average”.• The role and impact of outliers• The strengths and limitations of each type of measurement of central tendency.	
Representing data	<p>Represent two sets of collected data:</p> <ul style="list-style-type: none">• Pie charts• Histograms• Single bar graphs• Line and broken line graphs• Multiple bar graphs and compound/vertical stack graphs• Scatter plot graphs• Box-and-whisker plots	
Interpreting and analyzing data	<p>Read and select data from representations (that is, tables and graphs). Identify and describe trends/patterns in data presented in tables/graphs. Investigation:</p> <ul style="list-style-type: none">• Use percentages to represent data values in a table or graph• Use actual values to represent data values in a table or graph <p>Ask question on:</p> <ul style="list-style-type: none">• Sample size• Representivity of the sample• Methods used for collecting data• The neutrality of the data collection process• Whether the data collected was fact or opinion• The way in which data was sorted and/or grouped	



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	<ul style="list-style-type: none">• The sizes of the groups used in grouping the data• Type of measure used to determine the average of the data• The spread(range) of the data and what the spread suggests about the data <p>Compare different representations of multiple sets of data and explain differences.</p> <p>Investigate situations in which summarized and/or represented data is interpreted in different ways.</p> <p>Develop opposing arguments using the same summarized and/or represented data.</p>	
Probability		
	<p>Explore probability in scenarios involving:</p> <ul style="list-style-type: none">• Games using coins and dice• Weather predictions• Tests where there is the chance of inaccurate results• Cosmetic and other products making statements regarding probability• Lottery and other gambling games• Risk assessments• Newspaper articles containing references to probability	
Expressions of probability	<p>Work with situations involving probability, including:</p> <ul style="list-style-type: none">• Games that make use of coins and dice• Weather predictions• Tests where there is the chance of inaccurate results• Products making statements regarding probability• Tables and graphs containing data and statistics	



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	<ul style="list-style-type: none">• National lotteries• Gambling scenarios• Risk assessments• Newspaper articles that refer to “likelihood”, “chance” and/or “probability”	
Prediction	Work with situations involving probability, including: <ul style="list-style-type: none">• Games that make use of coins and dice• Weather predictions• Tests where there is the chance of inaccurate results• Products making statements regarding probability• Tables and graphs containing data and statistics• National lotteries• Gambling scenarios• Risk assessments• Newspaper articles that refer to “likelihood”, “chance” and/or “probability”	
Representation for determining possible outcomes	Work with situations involving probability, including: <ul style="list-style-type: none">• Games that make use of coins and dice• Weather predictions• Tests where there is the chance of inaccurate results• Products making statements regarding probability• Tables and graphs containing data and statistics• National lotteries• Gambling scenarios• Risk assessments• Newspaper articles that refer to “likelihood”, “chance” and/or “probability”	



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