Month	IB Unit Topic	Assessments and Activities	ATL Skills	Curriculum Standards and IB Criterion and Strands
September	Expressions and Equations	Activities 1. Introduce Interactive Notebook Activity 2. Interactive Notebook Compose and Decompose 3. Matching Game on Composing and Decomposing numbers 4. Classwork on Compose and Decompose 5. Interactive Notebook Positive and Negative Numbers 6. Classwork with real life situations positive and negative numbers 7. Interactive Notebook solve one- step addition and subtraction 8. Match Game - Match one step equation with their answer	Communication Communication skills Reading, writing and using language to gather and communicate information -Make inferences and draw conclusions -Understand and use mathematical notation -Take effective notes in class -Organize and depict information logically <u>Self-management</u> Organization skills Managing time and tasks effectively	StandardsEE.8.EE.3-4: Compose and decompose wholenumbers up to 99.EE.6.NS.5-8: Understand that positive and negativenumbers are used together to describe quantitieshaving opposite directions or values e.g., temperatureabove/below zero).EE.6.EE.1-2: Identify equivalent number sentences.EE.6.EE.5-7: Match an equation to a real-worldproblem in which variables are used to representnumbers.EE.7.EE.4: Use the concept of equality with models tosolve one-step addition and subtraction equations.EE.8.EE.7: Solve simple algebraic equations with onevariable using addition and subtraction.
		 9. Spin and Solve one step equations game 10. Interactive Notebook Number Sentences Formative and Summative -PreTest -Quiz on solving for X 	-Bring necessary equipment and supplies to class -Keep an organized and logical system of information files/notebooks <u>Thinking</u> Critical-thinking skills Analysing and evaluating issues	 Criterion C: Communicating iii. communicate coherent mathematical lines of reasoning iv. organize information using a logical structure. Criterion D: Applying mathematics in real-life contexts i. identify relevant elements of authentic real-life situations ii. select appropriate mathematical

		-Post Test	and ideas -Draw reasonable conclusions and generalizations <u>Transfer skills</u> Using skills and knowledge in multiple contexts -Apply skills and knowledge in unfamiliar situations	 strategies when solving authentic real-life situations iv. explain the degree of accuracy of a solution v. describe whether a solution makes sense in the context of the authentic real-life situation.
Month	IB Unit Topic	Assessments and Activities	ATL Skills	Curriculum Standards and IB Criterion and Strands
October November December January February	The Number System	Activities 1. Skittles Ratio Introduction Activity 2. Interactive Notebook Sequences 3. Classwork on Sequences 4. Multiplication Chart Sequences 5. 1X1 Interactive Notebook Multiplying Strategies -Groups -Array -Repeated Addition -Skip Counting -Fact Family 6. Classwork using the multiplication strategies from the Interactive Notebook 7. Multiplication worksheets for	Communication Communication skills Reading, writing and using language to gather and communicate information -Use and interpret a range of discipline-specific terms and symbols -Understand and use mathematical notation -Take effective notes in class <u>Self-management</u> Organization skills Managing time and tasks effectively -Bring necessary equipment and	Standards EE.8.EE.3-4: Compose and decompose whole numbers up to 99. EE.6.NS.5-8: Understand that positive and negative numbers are used together to describe quantities having opposite directions or values e.g., temperature above/below zero). EE.6.EE.1-2: Identify equivalent number sentences. EE.6.EE.5-7: Match an equation to a real-world problem in which variables are used to represent numbers. EE.7.EE.4: Use the concept or equality with models to solve one-step addition and subtraction equations. EE.8.EE.7: Solve simple algebraic equations with one variable using addition and subtraction.

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	extra practice 8. Dividing into equal shares Activity 9. Interactive Notebook Division -Groups -Array -Repeated Addition -Skip Counting -Fact Family -DMSB (Divide, Multiply, Subtract and Bring Down) 10. Division Worksheets for extra practice 11. Interactive Notebook greater than, less than and equal symbols 12. Classwork using symbols with numbers 13.Interactive Notebook Basic Fractions 14. Create a fraction strips 1-12 15. Understanding size of fractions by coloring parts 16. Fraction Pizza Class Project 17. Classwork on comparing fractions using pictures. 18. Classwork on comparing fractions using numbers. 19. Interactive Notebook Adding Fractions 20. Classwork adding fractions 21. Interactive Notebook	supplies to class -Keep an organized and logical system of information files/notebooks -Use appropriate strategies for organizing complex information Self-management Reflection skills (Re)considering the process of learning; choosing and using ATL skills -Develop new skills, techniques and strategies for effective learning -Demonstrate flexibility in the selection and use of learning strategies Thinking Strategies Use models and simulations to explore complex systems and issues -Identify trends and forecast possibilities	 Criterion A: Knowing and understanding i. select appropriate mathematics when solving problems in both familiar and unfamiliar situations Criterion B: Investigating patterns i. apply mathematical problem-solving techniques to recognize patterns ii. describe patterns as relationships or general rules consistent with correct findings iii. verify whether the pattern works for other examples. Criterion C: Communicating ii. use different forms of mathematical representation to present information Criterion D: Applying mathematics in real-life contexts iii. apply the selected mathematical strategies successfully to reach a solution iv. explain the degree of accuracy of a solution
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		Subtracting Fractions 22. Classwork on Subtracting fractions 23. Mixed adding and subtracting fractions 24. BUMP adding and subtracting decimals 25. Interactive Notebook turning a fraction into a decimal 26. Classwork on fractions to decimals 27. Interactive Notebook Ratios 28. Classwork on Ratios 28. Classwork on Ratios 29. PreTest -Sequence and Multiplication Quiz -Equal Shared and Division Quiz -Fractions and Ratio Quiz -Post Test	Using skills and knowledge in multiple contexts -Apply skills and knowledge in unfamiliar situations	
Month	IB Unit Topic	Assessments and Activities	ATL Skills	Curriculum Standards and IB Criterion and Strands
February March April	Graphing	<u>Activities</u> 1. Interactive Notebooks Tally and Frequency Chart 2. Classwork Tally and Frequency Chart	<u>Communication</u> Communication skills Reading, writing and using language to gather and communicate information	Standards EE.7.EE.2 Identify an arithmetic sequence of whole numbers with a whole number common difference. EE.7.NS.2.a: Solve multiplication problems with products to 100.

 3. Interactive Notebooks Bar Graphs 4. Classwork Bar Graphs 5. Interactive Notebooks Pictograph 6. Classwork Pictograph work 7. Make your own Pictograph 8. Interactive Notebooks Picture Graphs 9. Classwork Picture Graph 10. Interactive Notebooks Pie Charts 11. Classwork Pie Charts 12. Interactive Notebooks Line Graphs 13. Classwork Line Graphs 14. Interactive Notebooks Line Graphs with multiple lines 15. Classwork graphing multiple 	 -Use a variety of organizers for academic writing tasks - Organize and depict information logically <u>Self-management</u> Organization skills Managing time and tasks effectively -Keep an organized and logical system of information files/notebooks <u>Research</u> Information literacy skills Finding, interpreting, judging and creating information - Collect, record and verify data - Access information to be 	 EE.6.NS.2: Apply the concept of share and equal shares to divide. EE.7.NS.2.b: Solve division problems with divisors up to 5 and also with divisors of 10 without remainders. EE.6.NS.1: Compare the relationship between two unit fractions. EE.7.NS.1 Add fractions with like denominators (halves, thirds, fourths, and tenths) with sums less than or equal to one. EE.8.NS.1: Subtract fractions with like denominators (halves, thirds, fourths, and tenths) with minuends less than or equal to one. EE.7.NS.2.c-d: Express a fraction with a denominator of 10 as a decimal. EE.8.NS.2.a: Express a fraction with a denominator of 100 as a decimal. EE.7.NS.3: Compare quantities represented as decimals in real world examples to tenths.
 15. Classwork graphing multiple lines on one graph 16. Interactive Notebooks Line Plot 17. Classwork Line Plot 18. Interactive Notebook 	 Access information to be informed and inform others Make connections between various sources of information 	decimals in real world examples to tenths. EE.6.RP.1: Demonstrate a simple ratio relationship. EE.7.RP.1-3: Use a ratio to model or describe a relationship. IB Criterion and Strands
Probability 19. Classwork on Probability 20. Under The Big Top - A real world graphing and data project <u>Formative and</u> <u>Summative</u>	<u>Thinking</u> Critical-thinking skills Analysing and evaluating issues and ideas - Interpret data - Draw reasonable conclusions and generalizations	 Criterion A: Knowing and understanding ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in a variety of contexts. Criterion B: Investigating patterns i. apply mathematical problem-solving

		-PreTest -Under the Big Top Project -Post Test		 techniques to recognize patterns ii. describe patterns as relationships or general rules consistent with correct findings iii. verify whether the pattern works for other examples. Criterion C: Communicating i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written statements ii. use different forms of mathematical representation to present information iii. communicate coherent mathematical lines of reasoning iv. organize information using a logical structure. Criterion D: Applying mathematics in real-life contexts v. describe whether a solution makes sense in the context of the authentic real-life situation.
Month	IB Unit Topic	Assessments and Activities	ATL Skills	Curriculum Standards and IB Criterion and Strands
April May June	Geometry	Activities PRETEST 1. Interactive Notebook lesson on 2D Shapes (Key Words- Sides, Congruent Sides, Parallel, Angles, Right Angles) -Name the Shapes 2D Classwork	Communication Communication skills Reading, writing and using language to gather and communicate information -Understand and use	Standards EE.6.SP.5: Summarize data distribution shown in graphs or tables. EE.6.SP.1-2: Display data on a graph or table that shows variability in the data. EE.7.SP.3: Compare two sets of data within a single

 2. Interactive Note 3D Shapes (Key W Face, Edge) -Name the 3D Sha -Name the 3D Sha -Name the shapess -Game on Recogn when given speciff Worksheet 3. Interactive Note how shapes are Co 4. Congruent Shap Activity 5. Quiz on Recogr when given speciff 6. Building 2D and with cubes 7. Interactive Note Notes and Worksh 8. Toilet Papering 9. Area Grid Mato and Multiplying 10. Real World An 11. Area Dream H 12. Area Quiz 13. Perimeter Inte Notebook 14. Perimeter Clas Perimeter Grid M Drawing and Addi 15. Practice with r problems 16. Perimeter Qui 17. Geometrocity 18. Interactive No on angles (Key W Perpendicular, Interactive No 	ebook lesson on Words - Vertex,mathematical -Take effectiveapes Classwork s Notecards nizing shapes fic conditionsSelf-m Organization Managing tin effectively -Plan short- a assignments; Reflection sk (Re)consider learning; cho ATL skills -Develop new and strategies learningebook Area heet g Area Game ching/Drawing rea Problems HouseTI Critical-think Analysing an and ideas -Test generali conclusions -Propose and solutionsractive z class Project ords- Parallel, ersecting,Tran conditions	notation we notes in class nanagement n skills me and tasks and long-term meet deadlines stills ing the process of posing and using w skills, techniques a for effective hinking king skills nd evaluating issues izations and evaluate a variety of hsfer skills and knowledge in texts and knowledge in	data display such as a picture graph, line plot, or bar graph. EE.7.SP.5-7: Describe the probability of events occurring as possible or impossible EE.8.F.5: Describe how a graph represents a relationship between two quantities. EE.8.SP.4: Construct a graph of table from given categorical data, and compare data categorized in the graph or table EE.8.F.1-3: Given a function table containing at least 2 complete ordered pairs, identify a missing number that completes another ordered pair (limited to linear functions). IB Criterion and Strands Criterion A: Knowing and understanding i. select appropriate mathematics when solving problems in both familiar and unfamiliar situations ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in a variety of contexts. Criterion C: Communicating i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written statements Criterion D: Applying mathematics in real-life contexts i. identify relevant elements of authentic real-life situations
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 Straight, Right, Acute, Obtuse) 19. Interactive Notebook Measuring and drawing angles 20. What's your angle? 21. Quiz on recognizing angles and comparing angles 	unfamiliar situations	ii. select appropriate mathematical strategies when solving authentic real-life situations iii. apply the selected mathematical strategies successfully to reach a solution
Formative and Summative -PRETEST -Quiz on Recognizing shapes when given specific conditions -Area Quiz -Perimeter Quiz -Geometrocity Project -Quiz on recognizing angles and comparing angles -POST TEST		