# The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Month Aug.	# of Days 4	Core Standard 6.1 7.1	Strand Numbers and Number Systems	Content Chapter 1: Natural Numbers Unit 1: Sets and Set Notation • Definitions • Set and set notations • Unit set • Finite and infinite sets • Order of sets • Union of sets • Intersection of sets • Complement of a set	<ul> <li>Skills</li> <li>Understand the concept of sets</li> <li>Understand and explain the meaning of unit and empty set, finite and infinite set</li> <li>Perform basic set operations (Union, intersection, complement)</li> <li>Calculate the order of sets</li> <li>Identify and create</li> </ul>	Activities  Group Work  Mini-Research Projects  Computer Projects  Worksheets	Assessments <ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
				<ul> <li>Empty set</li> <li>Subset</li> </ul>	<ul> <li>Galculate the number of subsets of a finite set</li> </ul>		

## The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Aug Sept.	3	5.2	Numbers and Number Systems	Chapter 1: Natural Numbers Unit 2: The Natural Numbers Define Even Odd Multiples Addition and Multiplication of natural numbers Subtraction and Division of natural numbers Consecutive even numbers Consecutive odd numbers	<ul> <li>Perform operations without calculator</li> <li>Understand and perform long division</li> <li>Understand and use correct proper notations for division and multiplication         <ul> <li>a · b or ab for multiplication</li> <li>a for division</li> </ul> </li> <li>Understand the concept and basic properties of even and odd numbers</li> <li>Perform basic operations on consecutive numbers</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

Grade: 6 (Starter)

# The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Sept.	3	5.1	Numbers and Number Systems	<ul> <li>Chapter 1: Natural Numbers</li> <li>Unit 3: Powers of Natural Numbers</li> <li>Definition of powers(exponents) of natural numbers</li> <li>Basic operations</li> <li>Exponential growth problems</li> </ul>	<ul> <li>Simplify a<sup>n</sup> to a natural number</li> <li>Perform basic operations         <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></li> <li>(a<sup>m</sup>)<sup>n</sup> = a<sup>mn</sup></li> </ul> </li> <li>Understand the concept of exponential growth</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
Sept Oct.	3	5.2	Numbers and Number Systems	<ul> <li>Chapter 1: Natural Numbers</li> <li>Unit 4: Order of Operations</li> <li>Brackets</li> <li>Exponents</li> <li>Multiplication or</li> <li>Division</li> <li>Addition or</li> <li>Subtraction</li> </ul>	<ul> <li>Calculate the value of an expression without calculator</li> <li>Identify operations at each step</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

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Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Oct.	2		Numbers and Number Systems Numbers and Number Systems	<ul> <li>Chapter 1: Natural Numbers</li> <li>Comprehensive Project</li> <li>Comprehensive group project intended to demonstrate the students comprehensive understanding and functional knowledge of the material from Chapter 1.</li> <li>Review for Midterm Exam</li> </ul>	<ul> <li>Students will demonstrate their functional knowledge of the material from Chapter 1.</li> <li>Chapter 1: Natural Numbers</li> <li>Unit 1: Sets and Set Notation</li> <li>Unit2: The Natural Numbers</li> <li>Unit 3: Powers of Natural Numbers</li> <li>Unit 4: Order of Operations</li> </ul>	<ul> <li>Comprehensive Group Project</li> <li>Preferred for the students to do the project outside of class and present their results to the class.</li> </ul>	Presentation of the Group Project to the class.
				MIDT	ERM EXAM		

# The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Oct Nov.	3	5.2	Numbers and Number Systems	<ul> <li>Chapter 2: Integers</li> <li>Introduction to integers</li> <li>Addition of integers of the same sign</li> <li>Addition of integers of the different sign</li> <li>Subtraction of integers</li> <li>Multiply integers of the same sign</li> <li>Multiply integers of different signs</li> <li>Divide integers of the same sign</li> <li>Divide integers of different signs</li> </ul>	<ul> <li>Identify the rules in adding integers</li> <li>Perform addition of integers without calculator</li> <li>Perform subtraction of integers without calculator</li> <li>Identify the rules in multiplying integers</li> <li>Perform multiplication of integers without calculator</li> <li>Perform division of integers without calculator</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

# The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Nov.	3	5.1	Numbers and Number Systems	Chapter 2: Integers Unit 2: Properties of Integers • Commutative a + b = b + a a + (b + c) = (a + b) + c a + (b	<ul> <li>Identify the property used in a given equation</li> <li>Calculate an equation using the properties</li> <li>Apply the properties of integers to some expressions</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

Curriculum	Mapping
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#### The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities		Assessments
	3	5.2	Numbers and Number Systems	<ul> <li>Chapter 2: Integers</li> <li>Unit 3: Divisibility</li> <li>a is divisible by b if gives a remainder of zero</li> <li>Evenly divisible properties</li> <li>Divisibility rules for 2, 5 and 10</li> <li>divisibility rule for 3 and 9</li> <li>divisibility rule for 7</li> <li>divisibility rule for 6</li> </ul>	<ul> <li>Use of English notations</li> <li>Without calculator</li> <li>Identify when a sum is divisible by a given number</li> <li>Identify when a number is divisible by 2, 5 and 10</li> <li>Identify when a number is divisible by 3 and 9</li> <li>Identify when a number is divisible by 7</li> <li>Identify when a number is divisible by 6</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	•	Group Presentations Individual Presentations Worksheets

Grade: 6 (Starter)

## The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Nov Dec.	3	5.1	Numbers and Number Systems	<ul> <li>Chapter 2: Integers</li> <li>Unit 4: Primes and Composites</li> <li>Factorization</li> <li>Definition of Prime Numbers (1 is not prime)</li> <li>Definition of Composite numbers</li> <li>Prime decomposition</li> </ul>	<ul> <li>Write a number into two factors</li> <li>Identify if a given number is prime or composite</li> <li>Identify 1 is neither prime nor composite</li> <li>Find the prime numbers in a given range of number</li> <li>Factor a number into prime numbers</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
Dec.	2		Numbers and Number Systems	Chapter 2: Integers Comprehensive Project Comprehensive group project intended to demonstrate the students comprehensive understanding and functional knowledge of the material from Chapter 2.	<ul> <li>Students will demonstrate their functional knowledge of the material from Chapter 2.</li> </ul>	<ul> <li>Comprehensive Group Project</li> <li>Preferred for the students to do the project outside of class and present their results to the class.</li> </ul>	<ul> <li>Presentation of the Group Project to the class.</li> </ul>

Grade: 6 (Starter)

Month

# of

Core

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			1				
	2		Numbers and Number Systems	Review for Final Exam	<ul> <li>Chapter 2: Integers</li> <li>Unit 1: Introduction to Integers</li> <li>Unit 2: Properties of Integers</li> <li>Unit 3: Divisibility</li> <li>Unit 4: Primes and Composites</li> </ul>		
				FIN	AL EXAM		
Jan.	2	5.1	Numbers and Number Systems	<ul> <li>Chapter 3: Fractions</li> <li>Unit 1: Introduction</li> <li>Definitions <ul> <li>Numerator</li> <li>Denominator</li> </ul> </li> <li>B where a and b are integers, b ≠ 0</li> </ul>	<ul> <li>Define numerator and denominator of a fraction</li> <li>Represent fraction algebraically and geometrically</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

#### The Asian International School Curriculum Mapping

Subject: Mathematics

Content

School Year: 2018-2019

Assessments

Activities

Skills

	3	5.2	Numbers and Number Systems	Chapter 3: Fractions Unit 2: Properties of Fractions • Equivalent fractions • Basic properties $\circ  \frac{-1}{2} = \frac{2}{-4}$ (- can be in numerator or denominator) $\circ  \frac{1}{2}(\frac{3}{3}) = \frac{3}{6}$ $\circ  \frac{a}{b} = \frac{a}{b}$ or $\frac{a}{b} = \frac{a_{in}}{b_{in}}$ or $\frac{a}{b} = \frac{a_{in}}{b_{in}}$ • Simplify fractions • Compare fractions	<ul> <li>Determine when two fractions are equivalent</li> <li>Given a fraction, find other equivalent fractions</li> <li>Reduce fractions to their simplest form</li> <li>Convert fractions to common denominator</li> <li>Compare fractions using &gt; , &lt; , =</li> <li>Arrange fractions in ascending or descending order</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
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Skills

Grade: 6 (Starter)

Month

# of

Core

Days Standard

Strand

Subject: Mathematics

Content

School Year: 2018-2019

Assessments

Activities

## The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Jan Feb.	4	5.2	Numbers and Number Systems	<ul> <li>Chapter 3: Fractions</li> <li>Unit 3: Add and Subtract</li> <li>Fractions</li> <li>Add fractions with the same denominators</li> <li>Add fractions with different denominators</li> <li>Subtract fractions with the same denominators</li> <li>Subtract fractions with different denominators</li> <li>Subtract fractions with different denominators</li> <li>Commutative, Associative, zero property of fractions</li> </ul>	<ul> <li>Identify common denominator of the given fractions</li> <li>Add fractions with the same denominators</li> <li>Add fractions with different denominators</li> <li>Subtract fractions with the same denominators</li> <li>Subtract fractions with different denominators</li> <li>Subtract fractions with different denominators</li> <li>Apply commutative, associative, and zero property in fractions</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

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Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Feb.	3	5.2	Numbers and Number Systems	Chapter 3: Fractions Unit 4: Multiply and Divide Fractions Multiply fractions Commutative, Associative, distributive and identity property of fractions Divide fractions $a \frac{a}{b} = \frac{a}{b} \left(\frac{d}{c}\right)$ $a \frac{a}{b} = \frac{ac}{b}$ $a \frac{a}{b} = \frac{a}{bc}$	<ul> <li>Multiply fractions without using calculator</li> <li>Apply commutative, associative, and zero property of multiplication in fractions</li> <li>Divide fractions using basic rules</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
	2		Numbers and Number Systems	Chapter 3: Fractions Comprehensive Project Comprehensive group project intended to demonstrate the students comprehensive understanding and functional knowledge of the material from Chapter 3.	<ul> <li>Students will demonstrate their functional knowledge of the material from Chapter 3.</li> </ul>	<ul> <li>Comprehensive Group Project</li> <li>Preferred for the students to do the project outside of class and present their results to the class.</li> </ul>	<ul> <li>Presentation of the Group Project to the class.</li> </ul>

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Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments	
Mar.	2		Numbers and Number Systems	Review for Midterm Exam	<ul><li>Chapter 3: Fractions</li><li>Unit 1: Introduction</li></ul>			
MIDTERM EXAM								

# The Asian International School Curriculum Mapping

Subject: Mathematics

Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Mar.	2	8.1 8.4	Geometry	Chapter 4: Lines and Angles Unit 1: Points, Lines, and line segments • Terminologies • Point • Line • Collinear and non- collinear • Lines passing through two points • Rays, line segments and its notations • Length of a line segment • Point between two other points • Midpoint of a line segment	<ul> <li>Define point, line, collinear, and non- collinear points</li> <li>Identify and name points</li> <li>Determine when points are collinear</li> <li>Construct a line passing through two points</li> <li>Name rays and line segments</li> <li>Measure the length of line segment using measuring tools</li> <li>Identify which point lies between other two points</li> <li>Calculate the midpoint of a line segment</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

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Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Mar Apr.	3	8.1	Geometry	<ul> <li>Chapter 4: Lines and Angles</li> <li>Unit 2: Angles and Angle Notations</li> <li>Half-plane</li> <li>Ray lies between two rays</li> <li>Angles <ul> <li>Naming angles</li> <li>Acute, right, obtuse, straight and reflex angle</li> <li>Measuring Angles</li> </ul> </li> </ul>	<ul> <li>Name a half-plane</li> <li>Give examples of half-planes</li> <li>Construct a ray between two other rays</li> <li>Name angles (θ)</li> <li>Identify acute, right, obtuse straight and reflex angles</li> <li>Measure angles with a protractor</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>

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Month	# of Days	Core Standard	Strand	Content	Skills	Activities	Assessments
Apr.	3	8.2 8.4	Geometry	<ul> <li>Chapter 4: Lines and Angles</li> <li>Unit 3: Constructing angles</li> <li>Adjacent angles</li> <li>Complementary angles</li> <li>Supplementary angles</li> <li>Linear pair (both adjacent and supplementary angles)</li> <li>Draw angle with a given measure</li> <li>Bisect an angle with a <ul> <li>Protractor</li> <li>Compass</li> </ul> </li> </ul>	<ul> <li>Identify adjacent, complementary and supplementary angles</li> <li>Name adjacent, complementary and supplementary angles</li> <li>Construct an angle given a degree measure</li> <li>Construct the bisector of a given angle using a protractor and compass</li> </ul>	<ul> <li>Group Work</li> <li>Mini-Research Projects</li> <li>Computer Projects</li> <li>Worksheets</li> </ul>	<ul> <li>Group Presentations</li> <li>Individual Presentations</li> <li>Worksheets</li> </ul>
	2		Geometry	Chapter 4: Lines and Angles Comprehensive Project Comprehensive group project intended to demonstrate the students comprehensive understanding and functional knowledge of the material from Chapter 4.	<ul> <li>Students will demonstrate their functional knowledge of the material from Chapter 4.</li> </ul>	<ul> <li>Comprehensive Group Project</li> <li>Preferred for the students to do the project outside of class and present their results to the class.</li> </ul>	<ul> <li>Presentation of the Group Project to the class.</li> </ul>

Curriculum Mapping

Grade: 6 (Starter)

# of

Core

School Year: 2018-2019

Subject: Mathematics

Month	# of Days	Standard	Strand	Content	Skills	Activities	Assessments			
	2		Geometry	Review for Final Exam	Chapter 4: Lines and Angles					
					<ul> <li>Unit 1: Points, Lines, and line segments</li> <li>Unit 2: Angles and Angle Notations</li> <li>Unit 3: Constructing angles</li> </ul>					
FINAL EXAM										