



Ecole Internationale Provence-Alpes-Côte d'Azur



Forward Planning

Long-Term Semester Planning

Academic Year: 2022-2023

Class:	S1
Subject:	Mathematics
Teacher:	Klora
No. Students:	19

Curriculum – Long-Term Planning 2022-2023

Date	Objectives/ Connaissances	Activités	Resources	8 Compétences clés *	Evaluation
5/9/22 – 21/10/22	<p>Understand basic concepts of sets; Draw Venn diagrams; Use symbols appropriately;</p> <p>Adding & subtracting decimals;</p> <p>Understand difference between natural & integer numbers; Plot numbers on a plane; Understand absolute value; Compare two integer numbers; Order set of integer numbers & use the transitivity property; Know how to write a natural number as a product of primes; Use criteria of divisibility by 2, 3, 5 and 10; Find LCM and HCF; Understand importance of 0, 1;</p>	<p>Sets of evens & odds, sets of primes;</p> <p>Venn diagrams used to show the relationships between quadrilaterals with different properties;</p> <p>How negative numbers came about due to money & debt;</p> <p>Practical uses of negative numbers (e.g. temperature);</p> <p>Introduce Geogebra to plot points on a plane;</p> <p>Sieve of Eratosthenes to determine prime numbers;</p> <p>History of zero (India);</p>	<p>Textbook: Year 1 Mathematics Book 1 (Centre for Innovation in Mathematics Teaching UK);</p> <p>Geogebra;</p> <p>Dr. Frost Maths;</p> <p>Supplementary Materials (e.g. worksheets,...)</p>	1, 2, 3, 4, 5, 6, 7, 8	<p>Homework;</p> <p>Test(s);</p> <p>Quiz(s);</p> <p>Computer Lab Activities;</p> <p>Notebook;</p> <p>Participation;</p>
7/11/22 – 16/12/22	<p>Adding & subtracting integers; Calculate by multiplying and dividing two integers; Apply order of operations rules, brackets included; Know how to measure & construct line segments & angles using protractor & set square; Use compass directions & distances to find a location; Recognize & name the</p>	<p>Apply on a calculator;</p> <p>The area model, (12 x 23);</p> <p>Use Geogebra to construct: segments, lines, angles,...; Creating triangles with ruler, compass and protractor; Use with maps;</p>			

<p>2/1/23 – 10/2/23</p>	<p>triangles; Develop concept of an angle; Know how to construct triangles using SSS, SAS, SSA & ASA;</p> <p>Understand a fraction is a ratio of two integers; Understand that different fractions can be equivalent; Convert a fraction to decimal & vice-versa; Order fractions & decimals and place them on a number line; Recognize & name the following 2D shapes: quadrilaterals, polygons, circle; Classify 2D shapes with respect to parallelism, perpendicularity, equality of sides;</p>	<p>Use Geogebra to construct triangles;</p> <p>Using straws mixed lengths; Importance of fractions – historically for sharing food/pizza; Show that two ratios of different numbers can be world; Try to make Floor tiling out of equivalent; Find functions on a calculator; Find the structures in the real the shapes;</p>	<p>Textbook: Year 1 Mathematics Book 2 (Centre for Innovation in Mathematics Teaching UK);</p>		
<p>27/2/23 – 14/4/23</p>	<p>Recognize or sketch the top & side views of 3D shapes; Classify 3D shapes; Draw 3D shapes using CAD software & by hand; Recognize & construct nets of prisms & pyramids; Understand the distinction between a geometrical object and its measure; Estimate & measure lengths; Develop concept of area; Apply appropriate formula to calculate perimeters & areas; Develop concept of volume; Know & convert units;</p> <p>Use a pictoral sequence;</p>	<p>Investigate and compare the similarities/differences between 3D models;</p> <p>Create nets of prisms & pyramids;</p> <p>Measurement of the world, units;</p> <p>Different unit systems; Fit small squares in a big square; Calculate perimeters & areas of compound shapes; Fit small cubes in a big cube;</p> <p>Pupils draw the next pattern;</p>			

<p>2/5/23 – 7/7/23</p>	<p>Create rules to determine the next term of an arithmetic sequence; Understand how to create a general rule for an arithmetic sequence; Substitute into a general rule to find the value of an term; Know how to create a table of values from a pictoral sequence or a list of numbers; Plot the sequence from a table of values; Simplify equivalent expressions; Solve simple linear equations;</p>	<p>The rule is each time I add 4; The general rule is $4n + 1$; Find the 100th step; Use a spreadsheet to help find rules & determine an n^{th} term;</p>			
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Sensibilité et expression * Lien vers les 8 compétences clés :

1. Littératie (lecture et écriture)
2. Multilinguisme
3. Mathématiques, science, technologie et ingénierie
4. Numérique
5. Personnelles, sociales et capacité d'apprendre à apprendre
6. Citoyenne
7. Entrepreneuriale
8. Culturelles