



Ecole Internationale Provence-Alpes-Côte d'Azur



Forward Planning

Long-Term Semester Planning

Academic Year: 2020-2021

Class:	S1
Subject:	Mathematics
Teacher:	Erazmus
No. Students:	22

Curriculum – Long-Term Planning 2020-2021

Date	Objectives/ Connaissances	Activités	Resources	8 Compétences clés *	Evaluation
1/9/20 – 16/10/20	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;	How negative numbers came about due to money & debt; Practical uses of negative numbers (e.g. temperature); Introduce Geogebra to plot points on a plane; Sieve of Eratosthenes to determine prime numbers; History of zero (India);	Textbook: Year 1 Mathematics Book 1 (Centre for Innovation in Mathematics Teaching UK); Geogebra; Dr. Frost Maths; Supplementary Materials (e.g. worksheets,...)	1, 2, 3, 4, 5, 6, 7, 8	Homework; Test(s); Quiz(s); Computer Lab Activities; Notebook; Participation;
2/11/20 – 18/12/20	Adding & subtracting integers and decimals; 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 triangles; Develop concept of an angle; Know how to construct triangles using SSS, SAS, SSA & ASA;	Apply on a calculator; The area model, (12 x 23); Use Geogebra to construct: segments, lines, angles,...; Creating triangles with ruler, compass and protractor; Use with maps; Use Geogebra to construct triangles; Using straws mixed lengths;			

4/1/21 – 19/2/21	<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>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>		
8/3/21 – 23/4/21	<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>Investigate and compare the similarities/differences between 3D models; Create nets of prisms & pyramids; Measurement of the world, units; Different unit systems; Fit small squares in a big square; Calculate perimeters & areas of compound shapes; Fit small cubes in a big cube;</p>			
10/5/21 – 5/7/21	<p>Use a pictorial sequence; 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</p>	<p>Pupils draw the next pattern; The rule is each time I add 4; The general rule is $4n + 1$; Find the 100th step;</p>			

	<p>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; Understand basic concepts of sets; Draw Venn diagrams; Use symbols appropriately;</p>	<p>Use a spreadsheet to help find rules & determine an n^{th} term;</p> <p>Sets of evens & odds, sets of primes;</p> <p>Venn diagrams used to show the relationships between quadrilaterals with different properties;</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