



Ecole Internationale Provence-Alpes-Côte d'Azur



## **Forward Planning**

### **Long-Term Semester Planning**

**Academic Year: 2022-2023**

**Class: S2**

**Subject: Maths**

**Teacher: R. Morones**

**No. Students: 16**

## Curriculum – Long-Term Planning 2021-2022

Date	Learning Objectives	Activities	Resources	Key Competences*	Learning Outcomes / Assessment
September	Revision	<ul style="list-style-type: none"> <li>- Vocabulary</li> <li>- Number properties (prime numbers, square numbers, cube numbers, LCM, HCF, BODMAS)</li> <li>- Geometric shapes (2D and 3D).</li> </ul>	<ul style="list-style-type: none"> <li>- Bingo.</li> <li>- Team game (jeopardy).</li> </ul>	1, 2, 5, 7	<ul style="list-style-type: none"> <li>- Correct use of vocabulary</li> <li>- Getting back into school workmode.</li> </ul>
September	Rounding	<ul style="list-style-type: none"> <li>- Rounding to decimal places.</li> <li>- Rounding to significant figures.</li> <li>- Estimation.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Colour by numbers</li> <li>- Tarsia.</li> </ul>	1, 2, 4	<ul style="list-style-type: none"> <li>- Learn to round numbers to 1, 2, 3 decimal places.</li> <li>- Learn to round to significant figures.</li> <li>- Homework (coeff 2)</li> </ul>
September	Fractions	<ul style="list-style-type: none"> <li>- Revision of operations. (add, subtract with common denominator and different denominators).</li> <li>- Multiply and divide fractions.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Geogebra activities.</li> <li>- Bingo on equivalent fractions.</li> </ul>	1, 2, 3, 4, 5	<ul style="list-style-type: none"> <li>- Arithmetic operations with fractions.</li> </ul>
Test on Rounding and fractions (Coeff 2)					
October 2 weeks	Algebra	<ul style="list-style-type: none"> <li>- Revision (expressions, equations).</li> <li>- Opening brackets.</li> <li>- Solving equations with x on both sides, with brackets.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Bingo.</li> <li>- Tarsia.</li> </ul>	1, 2, 3, 4	<ul style="list-style-type: none"> <li>- AfL (tarsia puzzle assessment in levels).</li> </ul>
November	Percentages	<ul style="list-style-type: none"> <li>- Relationship between fractions and percentages, decimals.</li> <li>- Finding percentages and fraction</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Bingo.</li> <li>- Tarsia puzzles</li> </ul>	1, 2, 3, 4	<ul style="list-style-type: none"> <li>- Be able to go from fractions to percentages to decimals.</li> </ul>

		<ul style="list-style-type: none"> <li>of a number.</li> <li>- Increase/decrease by a percentage.</li> <li>Applied worded questions.</li> </ul>			- Homework (coeff 2).
December	Geometry (Quadrilateral, triangle and circles).	<ul style="list-style-type: none"> <li>- 2D shapes revision.</li> <li>- Units and conversion.</li> <li>- Areas and perimeters.</li> </ul>	<ul style="list-style-type: none"> <li>- Bingo.</li> <li>- Geogebra exploration of shapes.</li> <li>- Worksheets.</li> </ul>	1, 2, 3, 4, 5, 7	- Convert successfully between different types of units.
January	Statistiques	<ul style="list-style-type: none"> <li>- Data definition.</li> <li>- Types of data.</li> <li>- Collecting data.</li> <li>- Representing data.</li> <li>- Measures of tendency.</li> </ul>	<ul style="list-style-type: none"> <li>- Bingo.</li> <li>- Worksheets.</li> <li>- Project.</li> </ul>	1, 2, 3, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> <li>- Know the difference between qualitative and quantitative data.</li> <li>- Know how to collect data.</li> <li>- Learn to read and represent data.</li> <li>- Project (coeff 3)</li> </ul>
January/ February	Algebra (Graphs)	<ul style="list-style-type: none"> <li>- Distance-time graphs.</li> <li>- Revision (straight line graphs).</li> <li>- Applied questions on straight lines.</li> <li>- Quadratic expressions.</li> <li>- Quadratic graphs.</li> <li>Applied questions on quadratic graphs.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Geogebra.</li> <li>Matching card game.</li> </ul>	1, 2, 3, 4, 5, 6, 7.	<ul style="list-style-type: none"> <li>- Read and create distance-time graphs.</li> <li>- Convert between units using straight lines.</li> </ul>
February/ March	Number (Ratios)	<ul style="list-style-type: none"> <li>- Introduction to ratios.</li> <li>- Equivalent ratios.</li> <li>- Applying ratios in maps (scale 1:n).</li> <li>- Scale drawings.</li> <li>- Ratios in real life.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Project (Make a scaled map of the school).</li> <li>- Project with art department.</li> </ul>	1, 2, 3, 4, 5, 6, 7, 8	- Class work.

March	Geometry (Constructions)	<ul style="list-style-type: none"> <li>- Construction of parallel lines, perpendicular lines, angle bisectors and perpendicular bisectors.</li> <li>- Loci constructions.</li> <li>- Worded questions</li> </ul>	<ul style="list-style-type: none"> <li>- Constructions on paper.</li> <li>- Learning to construct with geogebra.</li> <li>- Worksheets on loci.</li> </ul>	1, 2, 3, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> <li>- Learn how to construct loci.</li> <li>- Learn to choose the correct loci construction.</li> <li>- Homework (Coeff 2)</li> </ul>
April	Numbers Rational numbers and powers.	<ul style="list-style-type: none"> <li>- Rational numbers.</li> <li>- Indices.</li> <li>- Operations with indices.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Tarsia puzzle.</li> </ul>	1, 2, 4	<ul style="list-style-type: none"> <li>- Understand and apply index laws correctly.</li> </ul>
April	Geometry	<ul style="list-style-type: none"> <li>- Symmetry (in nature).</li> <li>- Symmetry with à centre or à mirror line</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheet.</li> <li>- Geogebra work.</li> </ul>	1, 2, 3, 4, 8	<ul style="list-style-type: none"> <li>- Create figures using geogebra software.</li> </ul>
May	Geometry	<ul style="list-style-type: none"> <li>- Volumes of cuboids</li> <li>- Worded problems on areas and volumes.</li> </ul>	<ul style="list-style-type: none"> <li>- Worksheets.</li> <li>- Geogebra.</li> </ul>	1, 2, 3, 4, 8	<ul style="list-style-type: none"> <li>- Poster (Coeff 3)</li> </ul>
June	Stem Week	<ul style="list-style-type: none"> <li>- Use of previously acquired topics and applying them to cross curricular topics.</li> </ul>		1, 2, 3, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> <li>- Poster (Coeff 3)</li> </ul>
June	Revision				

\* Link to 8 key competences:

1. Literacy (reading and writing)
2. Multilingualism
3. Mathematics, Science, Technology and Engineering
4. Digital



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5. Personal, Social and Learning to Learn
6. Citizenship
7. Entrepreneurship
8. Cultural Awareness and Expression