

Subject: MATHEMATICS Applications and Interpretation	School year: 2023 / 2025	Class: Year 1 & 2
Level: Standard Level	Teacher: Mgr. Katarína Hribová, MA	

Year	Unit - Chapter	Approx. number of weeks	Approx. number of classes (45 min)
Year 1	1 - Ch 1 Measuring space: accuracy and 2D geometry	2,5	10
	2 – Ch 2 Representing space: non-right angled trigonometry and volumes	2,5	10
	3 – Ch 4 Dividing up space: coordinate geometry	3	12
	4 – Ch 5 Modelling constant rates of change: linear functions	4	16
	5 – Ch 9 Modelling relationships with functions: power functions	3,5	14
	6 – Ch 10 Modelling rates of change: exponential and logarithmic functions	4	16
	7 - Ch 11 Modelling periodic phenomena: trigonometric functions	2	8
	8 – Ch 3 Representing and describing data: descriptive statistics	2,5	10
	9 – Ch 6 Modelling relationships: linear correlation of bivariate data	3	12
	10 – Ch 14 Mathematical exploration	5	20
	TOTAL:	32	128
Year 2	11 – Ch 14 Mathematical exploration	5	20
	12 – Ch 7 Quantifying uncertainty: probability, binomial expansion and normal distributions	4	16
	13 – Ch 8 Testing for validity: Spearman's, hypothesis testing, χ^2 tests for independence	3	12
	14 – Ch 12 Analyzing rates of change: differential calculus	3	12
	15 – Ch 13 Approximating irregular spaces: integration	4	16
	Revision: exam style questions, Paper 1 practice, Paper 2 practice	4	16
	TOTAL:	23	92

Textbook:

Oxford IB Diploma Programme: IB Mathematics: applications and interpretation, Standard Level; OUP 2019
(Authors: Jane Forrest, Paula Waldman, Jennifer Chang Wathall, Suzanne Doering, David Harris, Nadia Stoyanova Kennedy)

Use of calculators:

Students are expected to have access to a graphic display calculator (GDC) at all times during the course. We recommend using the Casio fx-CG50 but other graphic display calculators are acceptable so long as you know how to use it or learn to use it by reading its accompanying directions.