

Core Math Summer Learning plan 核心數學暑期學習計劃

Please put a tick in the selected course. You may select at least two and finish them as much as possible.

☐ 甲部穩固課程 Section A Stabilizer:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	Achiever Mock 1 Section A			
	Achiever Mock 2 Section A			
	Achiever Mock 3 Section A			
	Achiever Mock 4 Section A			
	Achiever Mock 5 Section A			
	Achiever Mock 6 Section A			
	DSEPP 2021 Section A			

☐ 乙部提升課程 Section B Challenger:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	Achiever Mock 1 Section B			
	Achiever Mock 2 Section B			
	Achiever Mock 3 Section B			
	Achiever Mock 4 Section B			
	Achiever Mock 5 Section B			
	Achiever Mock 6 Section B			
	DSEPP 2021 Section B			

☐ 代數重溫課程 Fun Algebra:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	Linear Function and its graph 直線圖像			
	Variation 變分法			
	Quadratic Function and its graph 拋物綫			
	Exponential and Logarithmic graph 指數與對數			
	Solving equations 解方程 (More about equations)			
	One-variable Inequality 一元不等式			
	Linear Programming 綫性規劃			

□ 幾何重溫課程 CoGeom:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	Congruence and Similarity 全等與相似			
	Area and Volume 面積與體積			
	Rect and Polar 垂直與極坐標			
	Coordinate Trigonometry 三角學I			
	Trigonometric Laws 三角學II			
	Properties of Circle 圓形特性			
	Locus and Equation of Circle 圓方程			

□ 統計重溫課程 Art of Stat:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	Freq. and Cum. Graph 頻數統計圖			
	nCr and nPr			
	Probability 概率			
	Normal Distribution 正態分佈			
	Misuse of Statistics 統計的誤用			

□ 奪星爆炸課程 Star stealer:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新分數	Signature of Tutor 導師簽署
	AS and GS 數列			
	3D Trigonometry 立體三角學			
	More about Probability 進階概率			
	DSE MC 合集			
	DSE LQ 合集			

Appendix

Students are also required to complete a test under Teacher's inspection. A test paper will be published at the end of period. Teachers should take initiatives to arrange a test time and meet students for discussion about the result of the test, providing study plans for them.

Students are suggested to follow the plan to do revisions, or they shall take on their initiatives to communicate with teachers in order to provide the best-suited study plan according to the HKDSE.

Physics Summer Learning plan 物理暑期學習計劃

☐ 力學重點課程 May the Force be with You:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Linear motion 直線運動			
	Newtonian Law of Mechanics 牛頓運動定律			
	Moment of Force 力矩			
	Work and momentum 做功與 動量			
	Projectile motion 拋物運動			
	Circular motion 圓周運動			
	Gravitation 引力			

☐ 波動重點課程 Wave your Hand:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Reflection and refraction of light 光的反射與折射			
	Lens 透鏡			
	Traversal wave 行波			
	Stationary wave 駐波			
	General Interference 干涉現象			
	Double-slit and Diffraction grating 雙縫與光柵			

☐ 熱學重點課程 On fire:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Measurement of Temperature 溫度的量度			
	State of Matter 物態			
	Heat capacity and Latent Heat 熱容與潛熱			
	Kinetic Theory 粒子運動			
	General Gas Law 氣體公式			

☐ 電和磁重點課程 Electromagnetism:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Electrostatic 靜電學			
	Electric Circuit 電路			
	Electric Field and Magnetic Field 電場與磁場			
	Electromagnetic Force 電磁力			
	Electrical Induction 感生電學			

☐ 原子物理重點課程 Nuclear bomb:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Atomic Structure 原子結構			
	Radiation 放射			
	Types of Decay 衰變類型			
	Fusion and Fission 聚變與裂變			

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Extended Math Summer Learning plan 延數暑期學習計劃

☐ 微積分重點課程 Calculus not calculator:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Binomial and more 二項式定理			
	Trigonometry with Euler 三角 學及歐拉公式			
	Limit and more 嚴謹極限			
	Differentiation and its applica- tion 導數及其應用			
	Definite and Indefinite integra- tion 定積分與不定積分			
	Application of Integration 積分 的應用			

☐ 統計學重點課程 Statistics:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	Binomial and more 二項式定理			
	More about Probability 進階概 率			
	Discrete Random Variable 離 散分佈			
	Bernoulli and Binomial distri- bution 二項分佈			
	Geometric and Poisson distri- bution 泊松分佈			
	Normal distribution 正態分佈			
	Point Sampling 估算			
	Central Limit Theorem and Confidence Interval			

□ 代數學重點課程 Algebra:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	System of Linear Equation 綫性方程組			
	Matrices 矩陣			
	Determinant 行列式			
	Solving system 解方程			
	Vector and scalar arithmetic 向量空間			
	Vectorial product 向量積			
	3D vector 三維向量			

□ 數神挑戰計劃 God of Math:

Date of Beginning 開始日期	Content 內容	Date of Accomplishment 完成日期	Latest Marks 最新 分數	Signature of Tutor 導師 簽署
	2010 Pure Math PP			
	2005 Pure Math PP			
	2000 Pure Math PP			
	1995 Pure Math PP			
	1990 Pure Math PP			
	1985 Pure Math PP			
	1980 Pure Math PP			

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