

SING YIN SECONDARY SCHOOL
Syllabus for F.6 Mathematics (2016-2017)
Extended Part – Module 1

Textbook : New Progress in Senior Mathematics – Module 1 Book 1
S. N. Suen & K.T. Hung HK Educational Publishing Co.

New Progress in Senior Mathematics – Module 1 Book 2
P.H. Cheung, W.M. Chu and C.K. Kwun HK Educational Publishing Co.

Students are expected to develop the following attitudes:

- to love logical thinking
- to accept careful work as important
- to accept challenging work.

14	Normal Distribution	12	<ul style="list-style-type: none"> • To recognize the concepts of continuous random variables and continuous probability distribution, with reference to the normal distribution • To recognize the concept and properties of the normal distribution • To standardize a normal variable and use the standard normal distribution table to find probabilities involving the normal distribution • To find the values of $P(X > x_1)$, $P(X < x_2)$, $P(x_1 < X < x_2)$ and related probabilities, given the values of x_1, x_2, μ and σ, where $X \sim N(\mu, \sigma^2)$ • To find the values of x, given the values of $P(X > x)$, $P(X < x)$, $P(a < X < x)$, $P(x < X < b)$ or a related probability, where $X \sim N(\mu, \sigma^2)$ • To use the normal distribution to solve problems
15	Sampling Distribution and Point Estimates	10	<ul style="list-style-type: none"> • To recognize the concepts of sample statistics and population parameters • To recognize the sampling distribution of the sample mean from a random sample of size n • To recognize the concept of point estimates including the sample mean, sample variance and sample proportion • To recognize Central Limit Theorem
16	Confidence Interval	12	<ul style="list-style-type: none"> • To recognize the concept of confidence interval • To find the confidence interval for a population mean • To find an approximate confidence interval for a population proportion
Revision			<ul style="list-style-type: none"> • Sing Yin Past Papers • HKCEE Past Papers • HKALE Past Papers • HKDSE Past Papers

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Signature of Teacher In Charge : _____

Checked by : _____