Revision Topics for Year 11 Higher PPE2 - February 2024

Sources for revision help: Sparx Maths, Corbettmaths and onmaths.com are full of videos, practice questions and self-marking exam papers.

You will need full maths equipment including protractor and compasses as well as a Casio Scientific calculator with natural display. The Casio FX-83GTCW, FX-85GTCW, or FX991-CW are best.

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Paper 1 – Non-Calculator		Paper 2 - Calculator		Paper 3 - Calculator	
Topic	Sparx Code	Topic	Sparx Code	Topic	Sparx Code
Multiply decimals.	U293	Expand brackets and simplify the	U179	Convert numbers between standard	U330, U534
Evaluate calculations using index	U235, U694	resulting expression.		and ordinary form.	
laws.		Factorise an expression to a single	U365	Calculate an estimate for the number of	U166
Simplify calculations using index	U235, U694	bracket.	11556	times an event will occur using relative	
laws.	11720	Change the subject of a formula.	U556	frequency.	11077
Express a number as a product of	U739	Calculate percentage profit.	U278	Calculate the estimate for the mean.	U877
prime factors.	11350	Calculate compound interest.	U332	Identify the median from a frequency	U569
Find the HCF and LCM of two or more numbers.	U250	Solve a linear equation with unknowns on both sides of the equality symbol.	U870	table.	U509
Calculate a missing value given the	U291	Solve a ratio problem.	U577	Use inequalities represented on a number line.	0309
	0291	Calculate bearings.	U107	Solve a linear inequality.	U759, U738
mean. Construct a perpendicular line.	U245	Calculate bearings. Calculate the volume of a cylinder.	U915	Solve a HCF/LCM problem.	U250
Solve a geometric problem including	U655	Error intervals.	U657	Solve an inverse proportion problem.	U357
a ratio.	0033	Expand three brackets.	U606	Calculate with speed, distance, and	U151
Set up and solve simultaneous	U137	Complete a probability tree with	U729	time.	0131
equations.	0137	dependent events.	0723	Calculate with force, pressure, and area.	U527
Calculate the value of an item before	U286	Calculate probability.		Find the equation of a straight line.	U315
a percentage change.	0200	Identify proportionality graphs.	U238	Change the subject of a formula.	U556
Draw and interpret a real-life graph	U652, U638	Calculate the midpoint of a line	U933	Use a scale and convert metric units of	U257
from a ratio.	0002, 0000	segment.		measure.	0207
Calculate the circumference and	U604, U950	Use Pythagoras with coordinates.	U385	Calculate an angle given the area of a	U373
area of a circle.	, , , , , , , , , , , , , , , , , , , ,	Convert a recurring decimal to a	U689	sector.	
Complete and interpret a box plot.	U879, U837	fraction.		Interpret a cumulative frequency graph	U642
Given the equation of a straight line,	U898	Find equations for variables in direct	U640, U407,	to find specific values, the median and	
find equation of a perpendicular line.		and inverse proportion.	U364, U138	interquartile range.	
Use similarity in 3D shapes with	U110	Draw and interpret histograms.	U814	Find the nth term of a quadratic	U206
volume, area and linear scale		Calculate the median from a histogram.	U983	sequence.	
factors.		Use non-right angled trigonometry to	U592, U952,	Show similarity in 2D shapes.	U578
Evaluate a calculation using negative	U694, U985,	find missing lengths and the area of a	U591	Calculate probability of mutually	U683
and fractional index laws.	U772	triangle.		exclusive events.	
*Estimate the gradient of a curve.	U800	Show that an equation has a solution		Complete the square on a quadratic	
Rearrange a formula and substitute	U556	between two values.		expression and find the turning point.	U397
values.		Rearrange a formula.		Solve a quadratic equation.	
Factorise a quadratic expression with	U858	Use iteration to solve an equation.	U556	Enlarge shapes by negative and	U665
a coefficient of x^2 that is greater		Complete geometric proofs using	U434, U168	fractional scale factors.	U134
than 1.		vectors.	U560, U781	Complete a combination of	
Solve a quadratic inequality.	U133	Calculate the value of a composite and		transformations.	U766
Calculate probability of mutually	U683	inverse function.	U895, U448,	Calculate the volume of a frustum and	
exclusive events.		Simplify and complete operations to	U996	hemisphere.	U350, U617
Interpret a trigonometric graph.	U450	simplify algebraic fractions.	U695, U457,	Find a coordinate of a transformed	11455
Interpret a transformed	U455	Write and solve equations with	U824	function.	U455
trigonometric graph. Use non-right angled trigonometry	U591, U627	algebraic fractions.	U228, U960	Sketch the graph of a transformed function.	
to find a missing angle.	0331, 0027			Use circle theorems to find a missing	
Draw the graph of a circle.	U567			angle.	U808
Solve simultaneous equations	U836			Calculate with bounds.	0000
graphically.	0030			Rearrange formulae.	U657
Identify the common ratio of a	U958			Write fractions as ratios.	U556
geometric sequence.				Use Pythagoras' theorem and	
Bosines is sequence.				trigonometry in 3D.	U541, U170
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