Higher Maths Revision

Spend 20 mins on each of these

Date	topic	Pages (NE)	notes	
26th March	Prime factorisation	34 (2)		
27	HCF and LCM	35 (2,4)		
28	Indices	36 (7-13)		
29	Fractions	31 (15,16)		
30	Solving linear equations Equations to solve problems	Ch 5 p43 (18-25)	2F: evens 2G: choose any 3	
31	Inequalities on a number line	p192 (27-31)	2L:4,8,12,16,20	
2nd April	Calculating angles	286,287(33-36)	3A	
3	Polygons	(37-41)	3C: not in Interact	
4	3D shapes	(44-46)	3D:1,2,5,8 ; ditto	
5	Symmetry	(56-61)	3G: 7, ditto	
6	Percentage increase and decrease	80,81(95-102)	5F Q3	
7	Divide a quantity in a given ratio	213 (110-113)	5N Q7	
9	y=mx+c	132,133 (156-164)		
10	Direct proportion Square and cubic proportion	216-218 (349-359)	17D:8,9 17E:8,12	
11	Inverse proportion Only if you are brave	219-222 (360-367)	17G:5 plus any others	
12	Constructions: do some!	144-145 (148-153)	Make sure you can do all kinds of construction!	
13	Surds – optional!	457-460 (471-474)	As much as you can from 25C	
14	Upper and lower bounds	309-314 (474-478)	23E,9:23F,5: think carefully about division!	
16	Multiplying out brackets factorising	201-205 (211-214 203,419,420-426)	10D25,10M18 NE same pages but not 419,420 20I: try a few 20J: 20K	
17	Algebraic indices	Ch 39p392 (407-414)	Learn the rules! 20E	
18	Simplify algebraic fractions	382-385 (416-419)	20F,20G: a few from each	
19	Learn the circle,parallelogram trapezium and triangle area formulae	91-94 (337-342)	They are not on your formula sheet but you will need them.	

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20	Equations with algebraic fractions	437,8: This is hard!	21E	
21	Problems to solve	439-441	21F	
23	Transformations: Translations enlargement	129 134-137	6C:3 Fractional or negative scale factor, any centre	
24	Reflection rotation	130-132 132-134	In any line About any point and angle	
25	Compound interest	102-105, 585	5H: 11-12	
26	dimensions	342-347	16I	
27	Changing the subject	300-301	14F	
28	Simultaneous equations: algebraic	167-169	7E :8, 7F, 8	
30	Simultaneous equations: linear, graphical	164-166	7D:3,4,5, 6f	
1st May	Simultaneous equations: mixed	449-452	21J:4	
2	Rates of change Speed and density	105-110	5 I,J and K 5L: learn this formula	
3	Solving quadratic equations	428-430	21A one of each	
4	Recurring decimals/fractions	468-471	Read explanation and try some examples	
5	sequences	291-295	14A: 11,12; 14B 3,4,6 14C: 3,4, 11,19	
7	Shading regions	171-173	7H: 21	
8	Inequalities on a number line	27-31 446-449	2I:9,2J13,2L one from each. 21I	
9	Drawing quadratic graphs	368.9	18A: 14	
10	Using a quadratic graph to solve equations	374-375	18E:7	
11	Cubic and other functions	369-373	18B:12,18C :5; 18D8	
12	Circles	444-446	21H	
14	Sig fig	258-260	12C: 6,7	
15	loci	144-145		
16	Trig graphs	283-289	13I try a couple	
17	Transformation of functions	Ch 24	24H	

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18	Pythagoras' Theorem (2D)	175-180	Make sure you try a few questions	
19	Pythagoras' Theorem (3D)	183-185	You could take a look at this if you are brave.	
21	trigonometry	267-279	Learn them, be able to find a length or a side.	
22	substitution	295-297	14D try a few.	
23	Circle Properties:	42	Learn "segment", sector etc	
	Chords and tangents	524-527	26A 11,13,14	
	Angle subtended at centre..	530-532	You need to be able to use and PROVE these theorems! Try a few from the exercise at the end of each theorem, and ex 26G, 26H	
24	Angle in a semi-circle	528-529		
25	Angles in the same segment	533-534		
26	Opp. Angles of a cyclic quad Alternate segment theorem	534-536 536-538		
28	Volume and SA: prisms	341-342	The list of formulae you are given is on p 601. Learn all the others. Try one from each exercise.	
	cylinder	391-394		
29	Averages	305-308	Mean, median, mode and range.	
30	Moving averages	309-311	15Bq1	
1St June	Averages for grouped data	311-314	Q7,8	
2	Combinations of transformations	137-139		
4	Speed/distance-time graphs	376-378	18G: 3,4,5	
	Real-life graphs	378-382	18G:7,12	
4	Circles: arc length Circles: area of a sector	384-386 386-388	19A 19B	
5	Sampling	74-77	4D	
5	Cumulative frequency graphs Box plots	79-85 318-326 327-331	Median and IQR. Be able to draw a cf table.4F q1;325:q5 330q6	
6	histograms	Ch 27	Remember frequency DENSITY	
6	Scatter diagram with line of best fit	85-92	Describe correlation 4H q1	

7	Frequency polygons	77-78	Plot midpoints; join with a ruler. 4E	
7	Means and quartiles Drawing conclusions	326-327 331-333	Not covered well in the text book- use your old exercise bk or a revision guide. Choose 2 questions	
8	Relative frequency	194-196		
	Probability rules	188-194	9B	
	Tree diagrams	198-199	9E : choose 1	
8	Standard form	114-122	5R: 2,3,4	
9	Congruency	46-51	3E:7	
9	Similarity	51-56	3F: 7b, 8	
9	Area of a triangle	454-457	22A:3,4,5	
11	Trial and improvement	375-376	18F:7 or 10	
12	Solving quadratics by the formula	433-437	21D3e, 4	
12	Trig and pythag in 3D	465-466	22G	
12	Averages for grouped continuous data	314-317	NB: the use of the word *estimate*. It doesn't mean guess!	

Your non-calculator paper is on Monday afternoon!
Your calculator paper on Wednesday morning.

Remember your equipment: pen, sharp pencil, ruler, protractor, eraser, compasses (and calculator for paper 2).
Do you best and you will be fine!