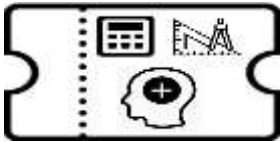SHS
Springwood
High School

hegartymaths

Passport to a Strong Pass (H)

Name:___

Boarding Pass

- [ ] Belief that anyone can do maths
- [ ] Revision timetable created
- [ ] Casio FX-85GTX Calculator
- [ ] Geometry set
- [ ] Knowledge organiser booklet
- [ ] Revision flash cards
- [ ] I know my Hegartymaths Login

Finals 1 dates:

P1

P2

P3

Revision Guidance Videos

- [ ] Using your passport
- [ ] MemRi
- [ ] How to self-quiz
- [ ] Goal free problems

- [ ] Exam Technique
- [ ] Using a mark scheme
- [ ] Mind set and sleep
- [ ] Know your calculator

Essential Stop Offs

Number Topics	Clip and Quiz numbers							
Product of primes / HCF / LCM	30		32		35	36		
Calculating with roots and indices	102	103	104	105	106	107		
Fractions calculations	66	67	69	70		79	80	
Percentage change / compound growth and decay	91	92		94	95			
Complex calculations / Error intervals	129	131		774	775	776		
Standard index form calculations	122	123	124	125	126	127	128	133
Financial statements and best buys	778		768	769	771	772		

Ratio and Proportion Topics	Clip and Quiz numbers							
Problems - ratio / recipes	335	336	337	338		739	740	741	742
Scale drawings	870	871						
Proportion - direct / inverse / graphs	344	345		347		348		

Probability Topics	Clip and Quiz numbers				
Probability essentials	357	358	359	360	
Sets and venn diagrams	370	371	373		378	379
Independent events and probability trees	361	362	363		

Statistics Topics	Clip and Quiz numbers						
Types of data	392	393					
Sampling and surveys	394	395	396	397	398	399	400
Averages problems	491	492					
Scatter graphs	453	454					

Geometry Topics	Clip and Quiz numbers							
Angle problems	488	489	490	491				
Angles in polygons	560	561	562	563	564	565		
Plans and elevations of 3D shapes	837	838	839	840	841	842	843	844
Conversion problems	714	715						
Compound units: Speed	721	722	723					
Compound units: Density	725	726	727	728	729	730	731	
Other compound units	738							
Circles - circumference and area	537	538	544	545	542	543	546	547
3D shapes - Surface area	587	588	589	590	591			
3D shapes - Volume	576	577	578	579	580	581	582	
Pythagoras' theorem	497	498	499	500	501	502		
Trigonometry	508	509	510	511	512	513	514	515
Similar shapes using scale factors	608	609	610	611	612	613	614	
Vectors	622	623	624	625	626			
Describing Transformations	650	651	652	653	654			

"No-one is ever told that they cannot pass their driving test… everyone can learn maths given the right support, time and EFFORT."

Algebra Topics	Clip and Quiz numbers								
Substitution	782	783	278						
Manipulating algebraic expressions	175								
Changing the subject	280	281	282						
Identities	154								
Expanding double brackets	167	168	169	170	171				
Factorising linear expressions	162	163	164	165					
Factorising quadratics: x^2+bx+c	221	223	224						
Gradient	203	204							
Equation of a straight line + parallel lines	208	209	210	211	212	213		214	
Distance-time and speed-time graphs	876	877	878	879		880			
Tariff graphs / Sketch graphs	897		898	899	900	901	902		
Graphs - quadratic / cubic / reciprocal	252	253	254	255		298	299		300	301
Linear equations in one variable	184	185	186						
Solving quadratic equations: $x^2+bx+c=0$	230	234							
Simultaneous equations / solving graphically	190	191	192	193	194	195	218		219	220
Linear inequalities – representing / solving	265	266	267	268		269	270	271	272	
Writing expressions and equations	151	152	153	154	155	188			
Fibonacci/geometric/quadratic seqeunces	263	264	247						

Notes: write the clip and question numbers that you have struggled with to ask your teacher for support. (e.g.—clip 23, question 4)

Higher only—working towards grade 6

Algebra Topics	Clip and quiz numbers										
Substitution	784	785	786	787		778	779		279		
Expanding triple brackets	166										
Changing the subject (advanced)	282	283	284	285	286	287					
Algebraic fractions: expressions / linear equations	172		187								
Quadratic expressions: Faactorising (advanced) / algebraic fractions / completing the square	225	226	227	228		229		235	236	237	
Quadratic equations: Factorising / Quadratic formula / Completing the square / Algebraic fractions / In context	231	232	233		241	242		238	239		244	245
Simultaneous equations: Solving / Graphically / involving quadratics	190	191	192	193	194	195	218		219	220		246
Manipulating powers	790	791	792	793	794	795					
Equation of a straight line:Parallel and Perpendicular lines	214		215	216							
Quadratic graphs: Turning points	256	243									
Rate of change graphs	894	895	896								
Estimating gradient from a curve	887	888	889	890							
Equation of a circle	778	779	314	315	316	317					
Functions: notation / domain and range / composite / inverse / problem solving	288	289		290	291	292		293	294		295	296		297
Other sequences: Quadratic sequences	247	248	249	250							
Iteration and numerical methods	322	323									
Proof and counter-examples / Algebraic proof	324		324	325	326						

Geometry and measure Topics	Clip and quiz numbers									
Circle theorems: Angles inside a circle	778	779	314	315	316					
Circle theorems: Tangents and chords	598	599	600	601						
Similar Shapes: Area	615	616	617							
Similar Shapes: Volume	618	619	620	621						
Pythagoras' Theorem: Problem solving	503	504								
Right-angled trigonometry: Problem solving	513	514								
3D Pythagoras	505	506	507							
Sine rule for area	517	518	519							
Non-right angled trigonometry: Sine rule / Cosine Rule	521	522	523	524	525		527	528	529	530
Vectors: Magnitude / Vector geometry basics	627		628	629	630	631				
Negative enlargements	646									
Describe combined transformations	656	657								

Statistics Topics	Clip and quiz numbers				
Quartiles and interquartile range	412	413			
Mean from grouped frequency tables	418				
Averages problems	421				
Cumulative frequency diagrams	437	438	439		
Box plots	434	435	436	440	
Frequency polygons	441				
Histograms - download the template sheets	442	443	444	445	446

Probability Topics						
Product rule for counting	671	672	673			
Conditional probability	364	365	366	367	389	390
Probability from Venn diagrams	385	386	387	388	391	

Number Topics	Clip and quiz numbers			
Calculating with roots and fractional indices	108	109	110	
Converting recurring decimals to fractions	53	54		
Surds: Definition and estimating	111	112		
Surds: Simplifying, multiplying and dividing	113	114	115	
Surds: Expanding brackets	116	117		
Surds: Rationalising the denominator	118	119		
Upper and lower bounds / Error intervals	137	138	139	777
Best buys	770			

Effort score tracker

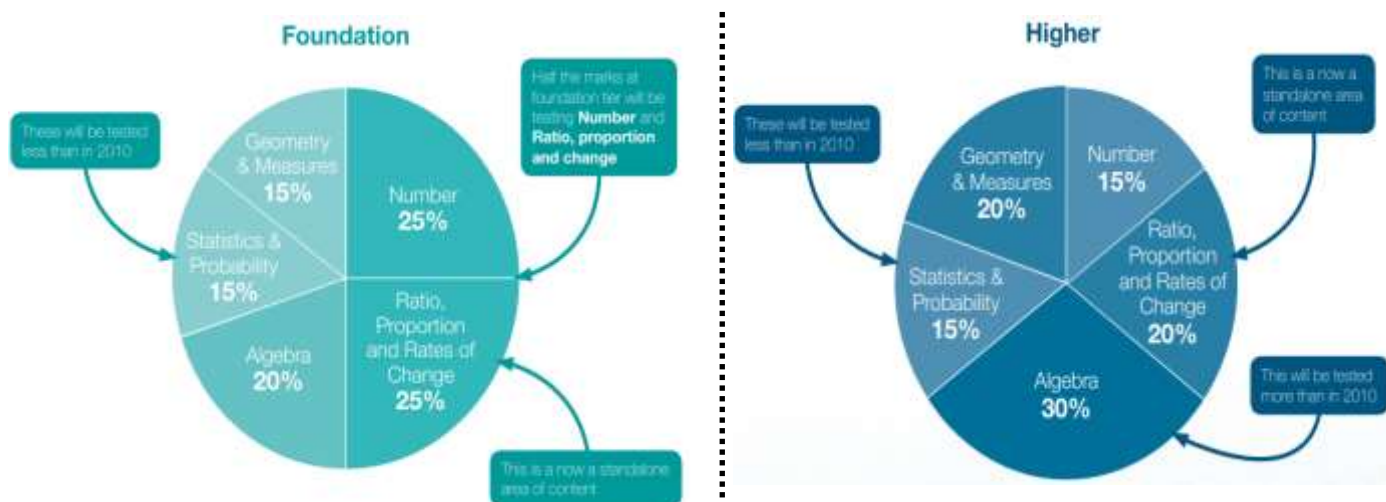| Week ending	Effort score 1-5		Homework tasks completed?		10 MemRi questions done?	Number of extra quizzes at 70%+	Parents signed
	Class	Home					
11/10/2019							
18/10/2019							
HALF TERM							
HALF TERM							
08/11/2019							
15/11/2019							
22/11/2019							
29/11/2019							
06/12/2019							
13/12/2019							
20/12/2019							
CHRISTMAS HOLIDAYS							
CHRISTMAS HOLIDAYS							
10/01/2020							
17/01/2020							
24/01/2020							
31/01/2020							
07/02/2020							
14/02/2020							
HALF TERM - MemRi quizzes							
28/02/2020							
06/03/2020							
13/03/2020							
20/03/2020							
27/03/2020							
03/04/2020							
EASTER HOLI-DAYS							
EASTER HOLI-DAYS							
24/04/2020							
01/05/2020							
08/05/2020							
GCSEs begin 15/05/2020							

Maths exam information

Exam dates━

Paper 1 (non-calculator) - Tuesday 19th May 2020 9am-10:30am 80 marks

Paper 2 (calculator) - Thursday 4th June 2020   9am-10:30am 80 marks

Paper 3 (calculator) - Monday 8th June 2020   9am-10:30am 80 marks

Website	What's it useful for?	✅
www.montgomerymaths.co.uk	Revision resources, videos and links	
www.mathsgenie.co.uk/GCSE	Exam questions sorted by grade and topics with answers. Some video support	
www.corbettmaths.com	• 5 a day sheets —5 questions for every day of the year with answers. • Worksheets for every topic with video support and answers • Practice papers with answers	
www.onmaths.com	Find the online mini-mocks that mark them as you go	
www.studymaths.co.uk/glossary	A-Z of maths words and their meanings	
www.mathsbot.com	Visit the GCSE resources to create revision grids and practice papers with answers.	

Ask your teacher about how to get hold of some revision cards