KLA Year 11 Term 3 Maths Knowledge Organisers

Year 11 – Foundation Knowledge Organiser Half Term 5

Key Revision Topics from Mock Papers

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Estimate complex calculations	131		
Perimeter	550		
Systematic listing	670		
Compare positive integers	14		
Order of operations	24		
Add or subtract fractions	66		
Geometric sequences	264		
Linear sequences (term-to-term rule)	197		
Describe transformations	650		

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Metric units of measure	691		
Converting time (worded problems)	711		
Money problem solving	753		
Bar charts and vertical line graphs	425		
Understanding ratios	329,332		
Bar charts and vertical line graphs	425		
Bar charts and vertical line graphs, mean	425,417		
Multiple of a number	33		
Highest common factor	31,32		

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Best buys	770		
Drawing quadrilaterals on centimetre grids	824		
Range, converting mass	410,695		
Fractions (worded problems)	80		
Order of operations	24		
Fractions of an amount, pie charts	77,427		
Writing inequalities	266		
Expand a single bracket	160		
Factorise simple expressions	168		

Year 11 – Higher Knowledge Organiser Half Term 5

Key Revision Topics from Mock Papers

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Manipulating powers	790		
Area of a sector	541, 546		
Probability trees and expectation	361, 355		
Change the subject of the formula	286		
Vectors geometry problems	629		
Convert recurring decimals to fractions	54		
Linear inequalities as graph regions	275		
Simplify algebraic fractions (involving quadratics)	229		
Non-calculator trigonometry (exact values)	846		

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Right-angled trigonometry	511		
Share in a given ratio	332, 333		
Drawing and interpreting box plots	435, 436		
Quadratic equations in context, compound shapes	245, 555		
Compound interest	94		
Sine rule (find angle)	523		
Simultaneous equations involving quadratics	246		
Points on exponential graphs, quadratic graphs	802, 245, 251		
Histograms	443		

Topic name (can also be searched online!)	Hegarty Maths clip number(s)	Video(s) watched? ✓	Questions revised? ✓
Solve equations with x on both sides	185		
Area with rectangles, triangles, Pythagoras	558, 501		
Compound volume (spheres and cones)	582		
Share in a given ratio, money problem solving	332, 753		
Straight line graphs (perpendicular)	216		
Inverse functions	296		
Pressure, share in a given ratio	734, 735, 333		
Angles in polygons, angles around a point	562, 812		
Find the turning point of quadratic graphs	256		

Your Future starts here

Year 11 Foundation

KING'S LYNN ACADEMY

Final Paper 1
Non Calculator

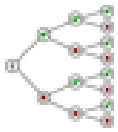
Final Paper 2
Calculator

Final Paper 3
Calculator

Predicted paper 3

Past paper revision

Past paper revision



Address issues from Mock 2 QLA

Term 3

Address issues from Mock 2 QLA

MOCK 2

Revision for MOCK 2

Past paper revision

Revision for MOCK 2

Address issues from Mock 1 QLA

MOCK 1

Term 2

Revision for MOCK 1

Vectors

Calculating percentages

Growth and decay

Quadratic graphs

Trigonometry

Solving Quadratic Equations

Direct and Inverse Proportion

Algebra and graphs

Proportion and Ratio

Algebra quadratics, rearranging formula and identities

Welcome to KLA your Journey starts here

Term 1

Your Future starts here

Year 11 Higher

KING'S LYNN ACADEMY

Final Paper 1
Non Calculator

Final Paper 2
Calculator

Final Paper 3
Calculator

Predicted paper 3

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Term 3

Address issues from Mock 2 QLA

Past paper revision

Address issues from Mock 2 QLA

MOCK 2

STANDARD FORM
345.09

Revision for MOCK 2

Past paper revision

Term 2

Address issues from Mock 1 QLA

Growth and decay (recap)

Revision for MOCK 1

MOCK 1

0.25 1/4 25%

Simultaneous equations (recap)

Further equations and graphs (recap)

Transforming functions

Gradients and rate of change

Sine and cosine rules

Algebraic fractions

Vectors

Welcome to KLA your Journey starts here

Ratio and proportion (higher level problems)

Term 1

Year 11 - Foundation

Maths

Knowledge Questions

Refer to the Knowledge Organiser pages previously to help with Exam preparation. Further specific revision topics should be noted below from your QLA

Revision Topic - 1 _____

Revision Topic - 2 _____

Revision Topic - 3 _____

Revision Topic - 4 _____

Revision Topic - 5 _____

Revision Topic - 6 _____

Year 11 - Foundation

Maths

Knowledge Checklist

	KNOWLEDGE CHECKLIST	KNOWLEDGE PROGRESS R	A	G
1	Revision Topic - 1 _____			
2	Revision Topic - 2 _____			
3	Revision Topic - 3 _____			
4	Revision Topic - 4 _____			
5	Revision Topic - 5 _____			
6	Revision Topic - 6 _____			
7				
8				
9				
10				

High Flyers - Enrichment Task

Esther earns £28 000 a year.

She pays 20% tax on earnings over £12 500

She pays 12% National Insurance on earnings over £8632

Work out Esther's monthly take-home salary.

Year 11 - Higher

Maths

Knowledge Questions

Refer to the Knowledge Organiser pages previously to help with Exam preparation. Further specific revision topics should be noted below from your QLA

Revision Topic - 1 _____

Revision Topic - 2 _____

Revision Topic - 3 _____

Revision Topic - 4 _____

Revision Topic - 5 _____

Revision Topic - 6 _____

Year 11 - Higher

Maths

Knowledge Checklist

	KNOWLEDGE CHECKLIST	KNOWLEDGE PROGRESS R	A	G
1	Revision Topic - 1 _____			
2	Revision Topic - 2 _____			
3	Revision Topic - 3 _____			
4	Revision Topic - 4 _____			
5	Revision Topic - 5 _____			
6	Revision Topic - 6 _____			
7				
8				
9				
10				

High Flyers - Enrichment Task

A circular clock face has centre O.
The long hand is OA and 6 cm in length.
The short hand is OB and 4 cm in length.
The time is 4 o'clock.
Find the distance from A to B.