

**SAT MATH ESSENTIAL - KAYLEY**

#	KST	LECTURE
1	2025. 12. 22	<p><b>1. Linear Functions &amp; Exponential Functions</b></p> <ul style="list-style-type: none"> <li>- Slope-intercept form</li> <li>- System of linear equations</li> <li>- Perpendicular lines</li> <li>- Linear inequalities</li> <li>- Interpreting exponential models</li> <li>- Graphs of exponential functions</li> <li>- Comparison between linear &amp; exponential functions</li> </ul>
2	2025. 12. 23	<p><b>2. Quadratic Functions &amp; Polynomial Functions</b></p> <ul style="list-style-type: none"> <li>- Different forms of quadratic functions</li> <li>- Completing the square</li> <li>- Quadratic formula &amp; discriminant</li> <li>- Quadratic identities</li> <li>- System of non-linear equations</li> <li>- Laws of exponents</li> <li>- Operations of polynomials</li> <li>- Factoring polynomials</li> </ul>
3	2025. 12. 24	<p><b>3. Radical Functions &amp; Properties of Functions</b></p> <ul style="list-style-type: none"> <li>- Solving rational equations</li> <li>- Solving radical equations</li> <li>- Transformations of functions</li> <li>- Operations of functions</li> <li>- Inverse functions</li> </ul>
4	2025. 12. 26	<p><b>4. Ratios &amp; Percents &amp; Data Interpretation</b></p> <ul style="list-style-type: none"> <li>- Ratios/rates/proportions</li> <li>- Unit conversion</li> <li>- Percent increase/decrease/change</li> <li>- Frequency tables/bar graphs/histograms</li> <li>- Scatterplots &amp; line of best fit</li> <li>- Average rate of change</li> </ul>
5	2025. 12. 29	<p><b>5. Statistics</b></p> <ul style="list-style-type: none"> <li>- Mean, median, mode</li> <li>- Standard deviations</li> <li>- Box plots</li> <li>- Margin of error</li> <li>- Inferential statistics</li> </ul>
6	2025. 12. 30	<p><b>6. Probability</b></p> <ul style="list-style-type: none"> <li>- Basic concepts of probability</li> <li>- Conditional probability</li> <li>- Multiplication rule</li> <li>- Addition rule</li> </ul>
7	2025. 12. 31	<p><b>7. Geometry</b></p> <ul style="list-style-type: none"> <li>- Angles on parallel lines</li> <li>- Congruent triangles</li> <li>- Similar triangles</li> <li>- Angles in polygons</li> <li>- Circles (Area, circumference, equations of circles, tangents to a circle)</li> <li>- Area &amp; volume of polygons</li> </ul>
8	2026. 1. 2	<p><b>8. Right Triangles &amp; Trigonometry</b></p> <ul style="list-style-type: none"> <li>- Pythagorean theorem</li> <li>- Special triangles</li> <li>- SOH CAH TOA</li> <li>- Angles in standard form</li> <li>- Degrees &amp; radians</li> <li>- Reference angles</li> <li>- Signs of trigonometric ratios</li> </ul>