

# KINGSDALE FOUNDATION SCHOOL

## MATHEMATICS DEPARTMENT

### GIFTED AND TALENTED PROGRAM 2019-2020 IMPERIAL COLLEGE MASTER CLASSES

DATE	YEAR GROUP	TOPIC	STAFF
THURSDAY 19 <sup>th</sup> DECEMBER 2019	8	<b>Laws of Indices:</b> Understanding powers and roots	<b>WDR + 1BT</b>
FRIDAY 13 <sup>th</sup> JANUARY 2020	7	<b>A different Base number system</b> Understanding number systems	<b>EOO + 1 BT</b>
WEDNESDAY 15 <sup>th</sup> JANUARY 2020	9	<b>Circle Theorem.</b> To apply and prove the standard circle theorems concerning angles, radii, tangents and chords, and use them to prove related results	<b>TAU + 1BT</b>
TUESDAY 21 <sup>ST</sup> JANUARY 2020	7	<b>Percentage:</b> Reverse percentage and percentage change	<b>ZWN + 1BT</b>
THURSDAY 30 <sup>th</sup> JANUARY 2020	8	<b>Quadratics Equations:</b> Expanding, Factoring and solving equations	<b>CHD + 1 BT</b>
WEDNESDAY 12 <sup>th</sup> FEBRUARY 2020	10	<b>Working with Surds</b> Simplifying and the use surds in Mathematics.	<b>AJS + 1BT</b>
WEDNESDAY 26 <sup>TH</sup> FEBRUARY 2020	12	Applications of <b>differentiation</b> and <b>integration</b>	<b>JHT + 1BT</b>

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MONDAY 16 <sup>TH</sup> MARCH 2020	9	<b>Solving Equations;</b> Finding the equation of a circle, Radius and Tangent	<b>DWR + 1BT</b>
THURSDAY 30 <sup>th</sup> APRIL 2020	8	<b>Surface area &amp; Volume:</b> 2D & 3D shape properties.	<b>TCK+ 1BT</b>
TUESDAY 5 <sup>th</sup> MAY 2020	7	<b>Probability:</b> Calculating probability of single and combined events including conditional probability	<b>OME + 1BT</b>
WEDNESDAY 20 <sup>th</sup> MAY 2020	9	<b>Set Theorem:</b> Venn diagram and Probability	<b>EOO + 1BT</b>
MONDAY 8 <sup>th</sup> JUNE 2020	10	<b>Congruency and Similarity</b> in shapes Proof and finding scale factor	<b>ZWN + 1BT</b>
WEDNESDAY 12 <sup>th</sup> JUNE 2020	9	<b>Working with Surds:</b> Simplify and calculating with Surds	<b>TAU + 1BT</b>
THURSDAY 18 <sup>TH</sup> JUNE 2020	8	<b>Functions:</b> Understanding different types of graphs	<b>STA + 1BT</b>
TUESDAY 23 <sup>RD</sup> JUNE 2020	7	<b>Introduction to Algebra:</b> Algebra in Shapes	<b>AJS + 1BT</b>

