

# TPS-DRC/JTC

## Class 9 – Syllabus & Learning Resource

Subject	Maths 9 <sup>th</sup>	Syllabus Till .....	
<b>Syllabus: unit 7, 10, 11, 12</b> <b>Syllabus: Unit 2 ,4, 13</b>			
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	
Unit 7	Solution of Simple Linear Equations in one Variables	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.1&amp;v=m-9-10-alg-sentences5">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.1&amp;v=m-9-10-alg-sentences5</a>	
	Solving Radical Equations in One Variable	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.1&amp;v=m-9-10-alg-sentences15">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.1&amp;v=m-9-10-alg-sentences15</a>	
	Introduction to absolute value equation	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences17">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences17</a>	
	Properties of absolute value equation	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences19">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences19</a>	
	Solving Absolute Valued Equations "	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences18">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.2&amp;v=m-9-10-alg-sentences18</a>	
	Introduction to Linear Inequalities	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-alg-sentences36">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-alg-sentences36</a>	
	Trichotomy Property of Inequality	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers40">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers40</a>	
	Transitive Property of Inequality	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers47">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers47</a>	
	Additive Property of Inequality	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers48">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers48</a>	
	Multiplicative Property of Inequality	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers49">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-real-numbers49</a>	
	Solution of Inequalities	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-alg-sentences20">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-7.3&amp;v=m-9-10-alg-sentences20</a>	
Unit 10	Congruency of Triangles	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-geo24">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-geo24</a>	

	<b>Angle-Side-Angle Postulate-1</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri7">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri7</a>	
	<b>Sides Facing Equal Angles are Equal in Triangle-2</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri7">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri7</a>	
	<b>Opposite Side to 30 Degree is Half in Length to Hypotenuse-e.g1</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri9">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri9</a>	
	<b>Angle Bisector Bisecting Opposite Side Isosceles Triangle is -e.g2</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri10">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri10</a>	
	<b>side-Side-Side Postulate-3</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri11">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri11</a>	
	<b>Perpendicular Bisector Theorem-Corollary3</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri12">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri12</a>	
	<b>Hypotenuse Side Postulate-4</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri13">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri13</a>	
	<b>Converse of Perpendicular Bisector Theorem-e.g3</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri14">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-10.1&amp;v=m-9-10-congruent-tri14</a>	
<b>Unit 11</b>			
	<b>Diagonals of Parallelogram Bisect Each Other-1</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri1">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri1</a>	
	<b>Adjacent Angles Bisectors are Perpendicular-e.g1</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri2">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri2</a>	
	<b>Parallelogram Opposite Sides - Congruent -Parallel-2</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri3">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri3</a>	
	<b>Mid point Theorem-3</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri4">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri4</a>	
	<b>Parallelogram is Joining Centers Quadrilateral Sides-e.g2</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri5">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri5</a>	

	<b>All Medians of Triangle Trisect Each Other-4</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri6">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri6</a>	
	<b>Proportional Segment Theorem-5</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri7">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri7</a>	
	<b>Converse of Midpoint Theorem-Corollary5</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri8">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-11.1&amp;v=m-9-10-parallelograms-tri8</a>	
<b>Unit 12</b>	<b>Right Bisector of Line Segment &amp; Angle</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors1">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors1</a>	
	<b>Perpendicular Bisector Theorem-1</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors2">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors2</a>	
	<b>Converse of Perpendicular Bisector Theorem-2</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors3">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors3</a>	
	<b>Triangle Right Bisectors of Sides are Concurrent-3</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors7">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors7</a>	
	<b>Angle Bisector Theorem-4</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors4">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors4</a>	
	<b>Converse of Angle Bisector Theorem-5</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors5">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors5</a>	
	<b>Angle Bisectors of Triangle are Concurrent-6</b>	<a href="https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors6">https://sabaq.pk/video-page.php?sid=balochistan-math-9th-12.1&amp;v=m-9-10-line-angle-bisectors6</a>	

<b>Subject</b>	<b>Maths</b>	<b>Syllabus Till : 1<sup>st</sup> term</b>
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**Syllabus:** Chapter no. 2 Real and complex numbers  
Chapter no. 4 Algebraic expressions and algebraic formulas  
Chapter no. 13 sides and angles of a triangle

<b>Unit/ Question Title</b>	<b>Topic</b>	<b>Availability of Learning Resource</b>	
		<b>Video Tutorial Link</b>	<b>Reading Material Reference</b>
	<b>Rational and irrational numbers Ex # 2.1</b>	<a href="https://www.youtube.com/watch?v=BXHoS94mc0Q">https://www.youtube.com/watch?v=BXHoS94mc0Q</a>	<b>PTB 9 Maths Pg # 33-38</b>
	<b>Properties of equality and inequality Ex # 2.2</b>	<a href="https://www.youtube.com/watch?v=AxqKN1klMHU">https://www.youtube.com/watch?v=AxqKN1klMHU</a>	<b>PTB 9 Maths Pg # 39-42</b>
	<b>Radical and</b>	<a href="https://www.youtube.com/watch?v=NNCZWqwyICw">https://www.youtube.com/watch?v=NNCZWqwyICw</a>	<b>PTB 9 Maths</b>

	<b>exponential form of real numbers.</b> Ex # 2.3		<b>Pg # 42-44</b>
<b>Unit # 2 Real and complex numbers</b>	<b>Exponents and laws of exponents</b> Ex # 2.4	<a href="https://www.youtube.com/watch?v=FPLQfbwPy4M">https://www.youtube.com/watch?v=FPLQfbwPy4M</a>	<b>PTB 9 Maths Pg # 45,46</b>
	<b>Complex numbers</b> Ex # 2.5	<a href="https://www.youtube.com/watch?v=Yij6bhwqj0c">https://www.youtube.com/watch?v=Yij6bhwqj0c</a>	<b>PTB 9 Maths Pg # 47,48</b>
	<b>Operations on Complex numbers</b> Ex # 2.6	<a href="https://www.youtube.com/watch?v=MkftsipPiFY">https://www.youtube.com/watch?v=MkftsipPiFY</a>	<b>PTB 9 Maths Pg # 49-51</b>
<b>Unit # 4 Algebraic expressions and algebraic formulas</b>	<b>Introduction of algebraic expressions, polynomials and rational/irrational expressions</b> Ex # 4.1	<a href="https://www.youtube.com/watch?v=ezyt86Wc2k">https://www.youtube.com/watch?v=ezyt86Wc2k</a> (part 1) <a href="https://www.youtube.com/watch?v=kQ0MBPm73ik">https://www.youtube.com/watch?v=kQ0MBPm73ik</a> (part 2)	<b>PTB 9 Maths Pg # 76-81</b>
	<b>Algebraic formulas</b> Ex # 4.2	<a href="https://www.youtube.com/watch?v=mwg3H0v0s14">https://www.youtube.com/watch?v=mwg3H0v0s14</a> (part 1) <a href="https://www.youtube.com/watch?v=li56cX8ROl8">https://www.youtube.com/watch?v=li56cX8ROl8</a> (part 2)	<b>PTB 9 Maths Pg # 83-87</b>
	<b>Ex # 4.3 Operations on surds</b>	<a href="https://www.youtube.com/watch?v=lwbUhqMV3Hw">https://www.youtube.com/watch?v=lwbUhqMV3Hw</a> (part 1) <a href="https://www.youtube.com/watch?v=PfttXgFvuj0">https://www.youtube.com/watch?v=PfttXgFvuj0</a> (part 2)	<b>PTB 9 Maths Pg # 88-89</b>
	<b>Ex # 4.4 Rationalization on surds</b>	<a href="https://www.youtube.com/watch?v=0cs8iDF3Ddk">https://www.youtube.com/watch?v=0cs8iDF3Ddk</a> (part 1) <a href="https://www.youtube.com/watch?v=DLdQBEEmIXA">https://www.youtube.com/watch?v=DLdQBEEmIXA</a> (part 2)	<b>PTB 9 Maths Pg # 91-93</b>
<b>Unit # 13 Sides and angles of a triangle</b>	<b>Ex # 13.1 Sides of triangles</b>	<a href="https://www.youtube.com/watch?v=cJcEdcyk_FY">https://www.youtube.com/watch?v=cJcEdcyk_FY</a> (ques 1) <a href="https://www.youtube.com/watch?v=KarmYcYyBvI">https://www.youtube.com/watch?v=KarmYcYyBvI</a> (ques 2) <a href="https://www.youtube.com/watch?v=wZZyOLmb3Lo">https://www.youtube.com/watch?v=wZZyOLmb3Lo</a> (ques 3) <a href="https://www.youtube.com/watch?v=SlrhObiAnOc">https://www.youtube.com/watch?v=SlrhObiAnOc</a> (ques 4) <a href="https://www.youtube.com/watch?v=mt9txc4KrJM">https://www.youtube.com/watch?v=mt9txc4KrJM</a> (ques 5)	<b>PTB 9 Maths Pg # 218-224</b>
	<b>Ex # 13.2 Angles of triangles</b>	<a href="https://www.youtube.com/watch?v=IwYAFWXwL8">https://www.youtube.com/watch?v=IwYAFWXwL8</a> (ques 1) <a href="https://www.youtube.com/watch?v=-gcg3ts27bs">https://www.youtube.com/watch?v=-gcg3ts27bs</a> (ques 2)	<b>PTB 9 Maths Pg # 225</b>
	<b>Theorem 1</b>	<a href="https://www.youtube.com/watch?v=x1jIUERUvvA">https://www.youtube.com/watch?v=x1jIUERUvvA</a>	<b>Pg # 218</b>
	<b>Theorem 2</b>	<a href="https://www.youtube.com/watch?v=0uqU0zqaq2Y">https://www.youtube.com/watch?v=0uqU0zqaq2Y</a>	<b>Pg # 220</b>
	<b>Theorem 3</b>	<a href="https://www.youtube.com/watch?v=geoDsmToi5s">https://www.youtube.com/watch?v=geoDsmToi5s</a>	<b>Pg # 222</b>

	<b>Theorem 4</b>	<a href="https://www.youtube.com/watch?v=yjXQB_n_bM">https://www.youtube.com/watch?v=yjXQB_n_bM</a>	<b>Pg # 225</b>