



## **Education and Sport Development**

Department of Education and Sport Development  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Tlhabololo ya Metshameko

**NORTH WEST PROVINCE**

# **NWPA 2018**

## **ASSESSMENT GUIDELINES**

**MATHEMATICS Paper 2 GRADE 9**

This document consists of 4 pages including cover page.

Content Area	Topic	Content and Skills	Description i.e. the learner needs to know or should be able to. . .
<b>Space and Shape (Geometry)</b>	<b>Straight line geometry</b>	Straight line 2 Lines cutting Parallel lines cut by a transversal	Which angles are equal when the <ul style="list-style-type: none"> <li>• Lines are parallel</li> <li>• Lines are not parallel</li> </ul> Difference between Complimentary and Supplementary angles.
	<b>Geometry of 2D shapes</b>	Triangles <ul style="list-style-type: none"> <li>• Isosceles</li> <li>• Right-angled</li> <li>• Equilateral</li> <li>• Similar</li> <li>• Congruency</li> </ul>	<ul style="list-style-type: none"> <li>• Know and use the side and angle properties to find size of angles and lengths of sides.</li> <li>• Know and use the conditions for similarity and congruency.</li> </ul>
		Quadrilaterals <ul style="list-style-type: none"> <li>• Square</li> </ul>	<ul style="list-style-type: none"> <li>• Comparison with rectangle, parallelogram ; with regard to sides, diagonals and angles.</li> </ul>
		<ul style="list-style-type: none"> <li>• Rhombus</li> </ul>	<ul style="list-style-type: none"> <li>• Know and use the properties of a rhombus with respect to sides and diagonals.</li> </ul>
<ul style="list-style-type: none"> <li>• Rectangle / Parallelogram</li> </ul>	<ul style="list-style-type: none"> <li>• State the side and angle properties.</li> <li>• Compare with other quadrilaterals.</li> </ul>		

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<b>Geometry</b>	<b>Transformation Geometry</b>	Transformation	<ul style="list-style-type: none"> <li>• Recognise, describe and perform translations, reflections and rotations of a triangle on a Cartesian Plane on squared paper.</li> <li>• Write down vertices of transformed shapes.</li> <li>• Determine scale</li> </ul>
<b>Measurement</b>	Perimeter and area of 2D shapes	<ul style="list-style-type: none"> <li>• Square</li> <li>• Triangle</li> <li>• Rectangle</li> </ul>	<ul style="list-style-type: none"> <li>• Use the appropriate formulae to calculate                             <ul style="list-style-type: none"> <li>✓ Perimeter,</li> <li>✓ Area</li> <li>✓ Calculate the perimeter and area of an unusual shape made up of usual shapes</li> </ul> </li> </ul>
	Pythagoras	Theorem of Pythagoras	<ul style="list-style-type: none"> <li>• Identify the right angle and the hypotenuse in a right-angled triangle.</li> <li>• Apply the theorem of Pythagoras to a right-angled triangle to calculate a side of the triangle.</li> </ul>
<b>Data Handling</b>	Probability	Compound Events	<ul style="list-style-type: none"> <li>• Determine the probability of an event from a table of compound events.</li> </ul>

<b>Data</b>	Statistics	Analyse Data	<ul style="list-style-type: none"><li>• Stem and Leaf diagram</li><li>• Mean</li><li>• Mode</li><li>• Range</li><li>•</li></ul>
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