

SUBJECT and GRADE	Mathematics Grade 12						
TERM 1	Week 6						
TOPIC	Euclidean Geometry Pythagorean Theorem and mixed problems						
AIMS OF LESSON	Use similarity to prove the Theorem of Pythagoras						
	• Apply knowledge to problems						
	• Answer riders using a combination of theorems						
RESOURCES	Paper based resources						
	Go to this section in your textbook.						
INTRODUCTION : Up to	TRODUCTION: Up to this stage you should know the following facts:						
	If	then					
Theorem 1: Proportionality	$ \begin{array}{c} $	A B AD AE					
		$\frac{1}{DB} = \frac{1}{EC}$					
	If	then					
Theorem 2: Similarity	$\mathbf{D} \xrightarrow{\mathbf{F}} \mathbf{E} \xrightarrow{\mathbf{A}} \mathbf{C}$	$\frac{\mathrm{DF}}{\mathrm{AB}} = \frac{\mathrm{FE}}{\mathrm{AC}} = \frac{\mathrm{DE}}{\mathrm{BC}}$					

CONCEPTS AND SKILLS











ACTIVITIES/ASSESSMENT						
Mind Action Series	Platinum	Clever	Classroom Mathematics	Siyavula		
Exercise: 8	Exercise: 5	Exercise:11.5	Exercise: 11.4; 11.8	Exercise: 8.9		
Page: 277	Page: 224	Page: 303	Page: 298	Page: 351		
CONSOLIDATION • K • U • 1 • 1 • 1		Thow your theorems Jse different colours to highlight the given information The proof of Pythagorean Theorem cannot be tested in the examination The circle Geometry of Grade 11 can be integrated with these theorems.				