(A) Lesson Context

BIG PICTURE of this UNIT:	• mastery with algebraic skills to be used in our work with co-ordinate geometry (midpoint, length, slope) • understanding various geometric properties of quadrilaterals & triangles • how do you really prove that something is "true"?		
CONTEXT of this LESSON:	Where we've been You know how to find a midpoint, a length & slope and how to work with Geogebra	Where we are Using length, slope & midpoint in classifying geometric figures	Where we are heading How can I prove various geometric properties of quadrilaterals and triangles?

(B) Lesson Objectives:

a. Review the properties of quadrilaterals and triangles through geogebra
b. Use algebraic methods to classify quadrilaterals & triangles

(C) Exploring Triangles – through dynamic geometry software: geogebra

Triangle Type	Constructed Geogebra (record points)	Properties	Confirmed algebraically
Equilateral triangle	A(30,30); B(-41,11), C(11,-41)		
Isosceles triangle	(A3,-1); B(7,1); C(3,4)		
Scalene triangle	A(-1,5), B(8,-2), C(-5,-1)		
Right triangle	A(1,5), B(9,-5), C(-4,1)		
Right isosceles triangle	A(1,5), (8,1), C(-3,-2)		

(D) Homework/Resources

Nelson 10 Chap 2.4 – Classifying Geometric Figures, p101-102, Q4,6,7,8,9