(A) Lesson Context

BIG PICTURE of this UNIT:	 How do we analyze and then work with a data set that shows both increase and decrease What is a parabola and what key features do they have that makes them useful in modeling applications How do I use graphs, data tables and algebra to analyze quadratic equations? 		
CONTEXT of this LESSON:	Where we've been In Lesson 3, you looked at key features of graphs of parabolas	Where we are We can look at graphs of parabolas and analyze for special features & we can also start looking for RELATIONSHIPS between the graphs, the equation and the parabolas features	Where we are heading How can I use graphs of quadratic relations to make predictions from quadratic data sets & quadratic models and quadratic equations

(B) Lesson Objectives:

- a. Practice working with graphs and with the graphing calculators to determine the key features of
- b. Use these special features of the parabolas to answer contextual questions in quadratic modelling
- c. Start seeing the connection that exists between the graphs of parabolas, their features and their equations

(C) KEY REVIEW POINTS → Main Point to Lesson 2

One KEY POINT to Lesson 2 was >

(D)KEY REVIEW POINTS → The TWO Main Points to Lesson 3

The FIRST KEY POINT to Lesson 3 was →

The SECOND KEY POINT to Lesson 3 was →

(E) Class Work to REINFORCE working with the Special Features of Parabolas

	FROM NELSON 10 textbook, Chap 3.2	FROM NELSON 10 textbook, Chap 3.4
	(page 266 – 269)	(page 280 – 285)
(A) THE BASICS	Q1,3,4,5,6,7,8,10	Q1,2,3,4,5abfgh
(B) BUILDING UPON THE BASICS	Q9acd, 11, 12, 14, 15	Q7adfhi, 8ace, 9abde, 10, 12
(C) APPLICATIONS	Q16	Q13, 14, 15, 16, 17, 19, 23

(F) Working with Graphs of Parabolas – Connecting graphs, features & equations

Determine the equation of the parabola graphed below

