(A) Lesson Comex	<u>1</u>			
BIG PICTURE of this UNIT:	 What is a Polynomial and how do they look? What are the attributes of a Polynomial? How do I work with Polynomials? 			
CONTEXT of this LESSON:	Where we've been We have discussed the basics: degree, type, and operations (+, -, x)	Where we are What are the key attributes of a polynomial and how do these affect the shape?	Where we are heading What are the key attributes of a polynomial and how do these affect the shape?	

(A) Lesson Context

(B) Lesson Objectives:

- a. Write down some observations based off the following questions.
- b. Answer some extensiion quesitons.

(C) Some Context

Lets try and get a grasp on what a Polynomial is, and then we will attempt to develop an understanding of the related vocabulary. So first, some context. In each of the senarios below please come up with an appropriate polynomial that models each situation.

Connections and Reflections:

1. Please reflect upon and write about any connections between the Factored Form equation and the graph .	Writen Response:	
Picture or sketch to support your thinking.		

2. Please reflect upon and write about any connections between the Standard Form equation and the graph .	Writen Response:		
Picture or sketch to support your thinking.			

3. Please reflect upon and write about any connections between the x-intercpts equation and the Equation .	Writen Response:	
Picture or sketch to support your thinking.		

4. Please reflect upon and write about any connections between the y-intercpts equation and the Equation .	Writen Response:
Picture or sketch to s	upport your thinking.

4. Please reflect upon and write about any connections between the Degree of the polynomial and the Shape of the graph .	Writen Response:
	g. Show 1 or 2 examples of your thinking.

5. Please reflect upon and write about any connections between the Sign of the Leading coefficient and the Shape of the graph .	Writen Response:
Picture or sketch to support your thinking	g. Show 1 or 2 examples of your thinking.

Final Consolidation

Degree	1 st Degree	2 nd Degree	3 rd Degree	4 th Degree	5 th Degree
and family	Name:	Name:	Name:	Name:	Name:
name					
	Graph Shape				
+ Leading					
Coefficient					
- Leading					
Coefficient					

EXT 1. Given the following **factored form equation**... without technology... put into standard form and draw a sketch of the **graph**.

f(x) = (x - 1)(x - 7)(x + 2)

EXT 2. Given the following **Graph**... write a possible factored form equaiton or standard form **equation**.

