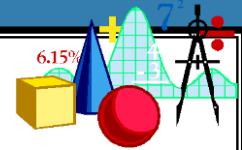Mathematics, Algebra I
Unit V: Lesson C2   Poster Design: **Wiggle Graphs**

Graph $y = ax^n + b$ on separate graphs when $a = 1$, $b = 0$, and $n = 2$ to 7.

Make separate graphs for $n = 2$ and $a = \{1, 2, -2, -3\}$

Make separate graphs for $n = 2$ and $b = \{1, 2, -2, -3\}$

Compare the graphs in each step, looking for patterns.

Make three posters: (1) showing the results of changing the value of n, (2) the value of a, and (3) the value of b. Include a brief explanation of the patterns you discovered on each poster.