## Learning Goals:

- I can graph a line using $y=m x+b$ or using $x$-intercepts and $y$-intercepts.
- I can speed graph a parabola in the form $y=a(x-p)^{2}+q$.
- I can state the maximum or minimum value and when it happens for any parabola.
- I can analyze an application using speed graphing

| Knowledge \& Skills | I have reviewed it | I have done questions | I think I've got this |
| :--- | :--- | :--- | :--- |
| Lines |  |  |  |
| Graph using $y=m x+b$ |  |  |  |
| Graph using x \& y - intercepts |  |  |  |
| Parabolas - "Speed Graphing" |  |  |  |
|  |  |  |  |
| $y=x^{2}+q$ |  |  |  |
| $y=(x-p)^{2}$ |  |  |  |
| $y=a x^{2}$ |  |  |  |
| $y=a(x-p)^{2}+q$ |  |  |  |
| State the Vertex ( $p, q$ ) |  |  |  |
| State the pattern: over 1 up 1 x $a$ |  |  |  |
| over 2 up 4 x $a$ |  |  |  |
| over 3 up 9 $\mathrm{x} a$ |  |  |  |$)$

