**Parabolas on the Move! Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Learning Goals:**

* Describe and predict how changing the coefficients of a quadratic function changes the graph of the function.
* Identify specific geometric transformations on the coordinate plane (reflection, translation, dilation)

**1.**  the Graphing Quadratics simulation for a few minutes. Play with the values of a, b, and c, then describe how each changes the graph of the quadratic function.

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| --- | --- | --- |
| Changing the value of *a* ... | Changing the value of *b* ... | Changing the value of *c* ... |
|  |  |  |

Turn and talk with your neighbor about your observations.

**2. View each graph and describe how to change the parent function ( y = x2 ) to make the ‘new’ parabola - be specific! (If you get stuck, brainstorm ideas with a neighbor. )**

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| **Graph** | **Describe transformation and action required** |
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| **Challenge!** |  |