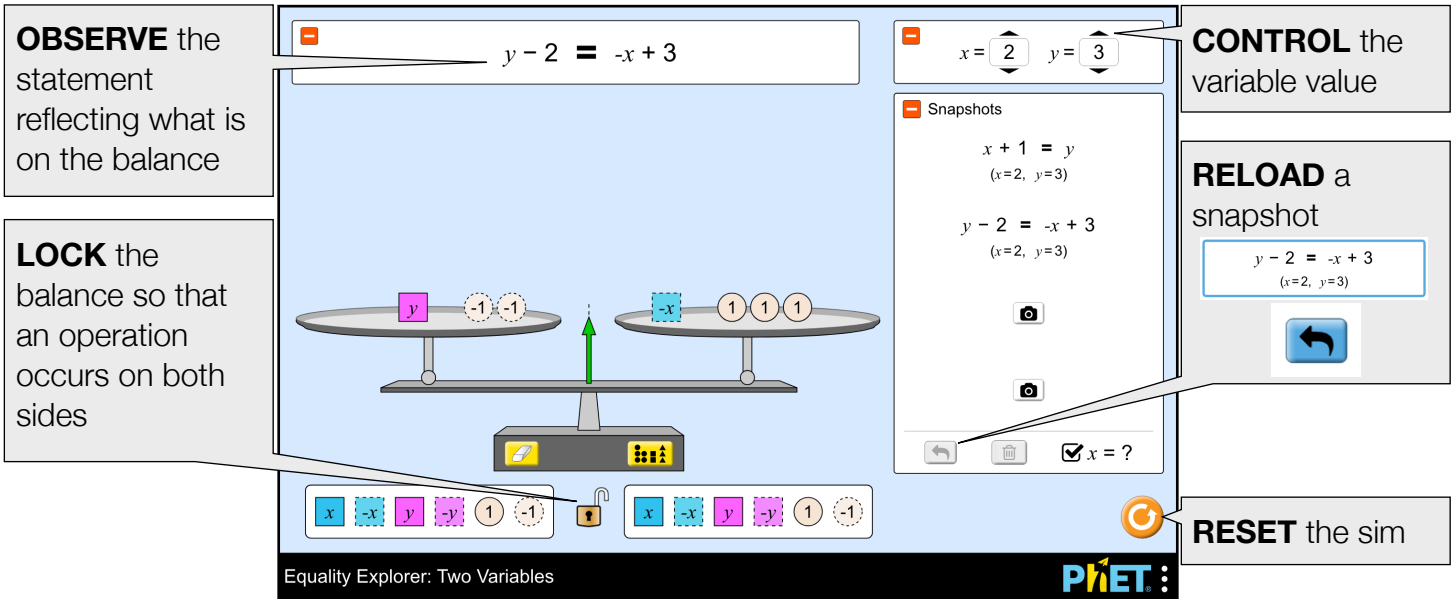
Equality Explorer: Two Variables

The ***Equality Explorer: Two Variables*** simulation allows students to explore the conditions that result in equality and inequality when there are two variables present. Students can build a system of equations and develop a meaningful understanding of a system of equations.



Insights into Student Use

- Students naturally want to find balanced situations. Encourage them to find as many as possible.

Suggestions for Use

Sample Challenge Prompts

- Build a balanced situation using both x and y. Hide the variable values and trade computers with a partner. Can you determine the values of x and y?
- Create an equation using both x's and y's and take a snapshot. Keeping the variable values the same, build a *different* equation and take a snapshot. What do you notice about *both* snapshots? What happens when you substitute the x and y values into both equations?

See all published activities for Equality Explorer: Two Variables here.
For more tips on using PhET sims with your students, see Tips for Using PhET.

McGarry, July 2018