

EquationQuest — Concept Poster

Print this and pin it up — an at-a-glance map of the EquationQuest cast and the ideas each one carries. Come back to it whenever you want to remember who teaches what.

Spark & Anvil is a 501(c)(3) public charity. Every app, story, and book is free, forever — no ads, no in-app purchases, no tracking. Released under Creative Commons BY-NC-SA 4.0 for educational reuse.

Meet the cast — and what each one teaches

Character	What they carry
Lever	Maintaining balance — do the same thing to both sides
Solo	Isolating the variable — moving everything else away from x
Undo	Inverse operations — addition $\leftrightarrow$ subtraction, multiplication $\leftrightarrow$ division
Spread	Distribution — multiplying across parentheses
Flipper	The sign-flip in inequalities when multiplying/dividing by a negative
Corral	Combining like terms — you can only add or subtract terms of the same kind; gather the like ones together
Leaven	Exponents — repeated multiplication; the small raised number counts how many times
Marshal	Order of operations — the agreed sequence for working an expression (PEMDAS)
Prise	Factoring — find the part two or more terms share and pull it out front
Stead	Substitution — put a known value in place of a variable, then simplify

Key ideas at a glance

The big concepts this cast helps you master:

- algebra

Keep exploring online

- Play it now: <https://sparkanvil.org/play/equationquest>
- Meet the cast: <https://sparkanvil.org/cast/equationquest>

- **More free books:** <https://sparkanvil.org/books>