

# Reactquest — Concept Poster

*Print this and pin it up — an at-a-glance map of the Reactquest 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                       |
|-----------|---------------------------------------|
| Halden    | Stoichiometry / mole ratios           |
| Basil     | Equilibrium / Le Chatelier            |
| Yuki      | Kinetics / reaction rates             |
| Osric     | Acid–base / pH                        |
| Perrin    | Gas laws                              |
| Dmitri    | Periodic trends & bonding             |
| Anwyn     | Thermochemistry / endo-exo            |
| Tobias    | Redox / electron transfer             |
| Nerys     | Solutions & concentration             |
| Sabina    | (Mentor) — guides reflect-on-approach |

## Key ideas at a glance

*The big concepts this cast helps you master:*

- Atomic structure — protons, neutrons, electrons, isotopes
  - Periodic trends — organization and predictable patterns
  - Chemical bonding — ionic, covalent, and Lewis structures
  - Naming compounds and writing chemical formulas
  - The mole and stoichiometry — quantitative chemistry
  - Limiting reagent and percent yield
  - Gas laws — pressure, volume, temperature relationships
  - Solutions and concentration — molarity and dilution
  - Reaction types — recognizing patterns of chemical change
  - Kinetics — reaction rate and collision theory
  - Chemical equilibrium and Le Chatelier's principle
  - Acids, bases, and pH
  - Thermochemistry — energy changes in reactions
  - Redox — oxidation, reduction, and electron transfer
  - Introductory organic chemistry — carbon and functional groups
  - Capstone — integrating stoichiometry, energy, and equilibrium
- 

## Keep exploring online

- **Play it now:** <https://sparkanvil.org/play/reactquest>
- **More free books:** <https://sparkanvil.org/books>