

Inquiryforge — Concept Poster

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

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Meet the cast — and what each one teaches

Character	What they carry
Hattie	Hypothesis / testable prediction — turns a hunch into a testable if-then before touching data
Cal	Control the variable — changes exactly ONE thing, holds the rest constant
Fenn	Confound-hunter — spots the hidden third variable that would fool you
Ravi	Replication / reproducibility — repeats the study to see whether the result holds
Corvo	Correlation $\neq$ causation — refuses to call a link a cause without a controlled test
Sana	Sampling & bias — checks the sample represents the whole before generalizing
Opal	Operationalize / measurement — turns a fuzzy idea ('healthy') into a measurable one
Nia	Data analysis / signal-vs-noise — separates the real pattern from random variation
Argus	Peer critique / argumentation (ADI) — challenges every claim and demands the evidence
Sol	Mentor — frames the investigation, keeps it honest, guides reflect-on-method (the AAR guide)

Key ideas at a glance

The big concepts this cast helps you master:

- Testable hypotheses; if-then
- Independent / dependent / controlled
- Change one thing, hold the rest
- The hidden third variable

- Turn a fuzzy idea into a measurable one
 - Representative samples; selection bias
 - Randomize; control groups
 - A link is not a cause
 - Variability; is the difference real?
 - Axes, scales, misleading charts
 - Does it hold?
 - Support a claim with evidence
 - Construct + critique arguments
 - When you can't randomize
 - Over-/under-claiming; limits
 - Design a full investigation + defend it
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