

Helixquest — Concept Poster

Print this and pin it up — an at-a-glance map of the Helixquest 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
Ravindra	Cell structure & function
Marisela	Mendelian genetics / Punnett
Caius	DNA & molecular biology
Peregrine	Evolution / natural selection
Sunniva	Population ecology
Bronwen	Homeostasis & physiology
Lorcan	Meiosis & mitosis
Elodie	Photosynthesis & respiration (energy)
Anselm	Enzymes & biochemistry
Vivienne	(Mentor) — guides reflect-on-approach

Key ideas at a glance

The big concepts this cast helps you master:

- Predicting inheritance — and revising intuitive errors
 - Organelles, membranes, and the prokaryote/eukaryote divide
 - How plants convert light energy into chemical energy
 - Harvesting energy from glucose — and the misconceptions about it
 - Structure, replication, and the flow of genetic information
 - How one cell becomes two genetically identical cells
 - Halving the genome and generating variation for sexual reproduction
 - How and when genes are turned on and off
 - How populations change over time — and the misconceptions that cloud it
 - How populations grow, level off, and interact
 - How energy and matter move through ecosystems
 - Keeping the internal environment stable
 - Catalysts, macromolecules, and reaction control
 - How substances cross the plasma membrane
 - Two systems that coordinate the body — fast and slow
 - Integrating biology — reasoning and revising across every unit
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