

FunctionForge — Concept Poster

Print this and pin it up — an at-a-glance map of the FunctionForge 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
Stride the Pattern-Walker	Linear functions (constant rate of change)
Echo the Sameness-Keeper	Constant functions (zero rate of change; output unchanged regardless of input)
Arc the Curve-Catcher	Quadratic functions (parabola — symmetric rate-of-change-changes)
Burst the Doubler	Exponential functions (constant <i>multiplicative</i> rate of change)
Pivot the Rule-Switcher	Piecewise functions (different rules for different input ranges)
Rewind the Step-Reverser	Inverse functions (undoing a rule step-by-step to recover the original input)
Roundel the Round-Returner	Periodic functions (a pattern that repeats at a fixed interval)
Sill the Threshold-Keeper	Domain and range (which inputs are allowed and which outputs can appear)
Vale the Valley-Folder	Absolute value (folding the number line at zero so distance is always positive)
Weir the Chain-Linker	Composite functions (feeding one rule's output into the next)

Key ideas at a glance

The big concepts this cast helps you master:

- Input-Output Machines: Understanding Functions
- Function Tables and Growing Patterns
- Variables, Expressions, and Simple Equations
- Graphing Functions on the Coordinate Plane

- Linear Functions and Rate of Change
 - Non-Linear Functions: Quadratics and Exponentials
 - Function Analysis: Domain, Range, and Transformations
 - Capstone: Real-World Modeling and Function Fluency
 - Foundational Concepts Review
 - Applied Problem Solving
 - Critical Analysis & Evaluation
 - Advanced Integration & Synthesis
 - Expressions
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Keep exploring online

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