

# Claude Financial Modeling — Cheat Sheet

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## DARE FRAMEWORK — Prompt Engineering for Finance

<b>D — Define</b>	Set context, role, and scope. Include: industry, company type, analyst role, time horizon, currency.
<b>A — Analyze</b>	Specify what data to analyze: financial statements, KPIs, market conditions, assumptions, historical trends.
<b>R — Request</b>	State exact output format: tables, models, charts, ratios, sensitivity analysis, format (Excel-ready, JSON, etc.).
<b>E — Evaluate</b>	Instruct Claude to validate: sanity checks, cross-references, reasonableness tests, error flags, peer comparisons.

## CORE PROMPTS — Essential Claude Prompts for Financial Modeling

Category	Prompt	Type
Financial Stmts	Build linked 3-statement model for [Company] with [X]% rev growth, [Y]% gross margin, [Z]% capex/rev. Project 5 years.	Chat
Financial Stmts	Ratio analysis on IS + BS: profitability, liquidity, leverage, efficiency ratios. Compare to benchmarks.	Chat
Financial Stmts	Common-size analysis (vertical + horizontal) for 3-year IS. Flag line items deviating >2% YoY.	Chat
Forecasting	Forecast revenue 5Y bottom-up: [X] stores × [Y] avg rev × [Z]% SSS growth. Base/Bull/Bear scenarios.	Chat
Forecasting	Project OpEx: COGS [X]% of rev, SG&A (fixed + variable), R&D, D&A. Apply [W]% inflation to fixed.	Chat
Forecasting	3-scenario analysis for RE project. Vary: occupancy ±10%, rental ±15%, exit cap ±50bps. Show IRR + EM.	Chat
Valuation	DCF: FCF Y1=\$[X]M, growing [Y]% for 5Y, WACC=[Z]%, TGR=[W]%. EV bridge to equity per share.	Chat
Valuation	Comparable company analysis: [peers]. Compare EV/EBITDA, P/E, EV/Rev, P/B. Implied valuation range.	Chat
Valuation	WACC build-up: Equity=\$[X]M, Debt=\$[Y]M, Kd=[Z]%, Tax=[W]%, Rf=[R]%, ERP=[E]%, Beta=[B].	Chat
Working Capital	WC dynamics: DSO, DIO, DPO, CCC. Project working capital needs for 5Y at [X]% rev growth.	Chat
Working Capital	12-month cash flow forecast (direct method): collections, payments, payroll, rent, capex, debt service.	Chat
API — System	System: 'Senior GCC analyst. Output JSON: assumptions, model_output, sensitivity, validation. IFRS.'	API
API — Batch	Analyze 10 companies: Rev CAGR (3Y), EBITDA margin, Net Debt/EBITDA, ROE, FCF yield. Ranked table.	API
API — Sensitivity	2-way sensitivity: WACC (7–13%, 1%) × TGR (1–5%, 0.5%). Output as JSON matrix.	API
API — Validation	Validate model: BS balances, CF ties to ΔBS, circular interest, growth compounding, margin ranges.	API
Automation	Python: read Excel → Claude API → 3-statement model → 3 scenarios → export Excel + charts.	API
Automation	Monthly reporting: pull financials → actuals vs budget → variance analysis → flag >10% → exec summary.	API
Quick Analysis	[X] min before meeting. Analyze P&L: top 3 insights, biggest risk, 1 mgmt question, benchmarks.	Chat
Quick Analysis	Compare 2 investments side-by-side: IRR, payback, risk-adj return, capital needs, strategic fit.	Chat

KEY FORMULAS & RATIOS			
Category	Name	Formula	What It Measures
Profitability			
	Gross Margin	$(\text{Revenue} - \text{COGS}) / \text{Revenue}$	Revenue retained after direct costs
	EBITDA Margin	$\text{EBITDA} / \text{Revenue}$	Operating profit excl. non-cash & financing
	Net Margin	$\text{Net Income} / \text{Revenue}$	Bottom-line profitability
	ROE / ROA	$\text{NI} / \text{Equity}$ or $\text{NI} / \text{Assets}$	Return on equity or asset efficiency
	ROIC	$\text{NOPAT} / \text{Invested Capital}$	Return on all capital vs. WACC
Liquidity & Leverage			
	Current Ratio	$\text{Current Assets} / \text{Current Liab}$	Short-term obligation coverage ( $\geq 1.5x$ )
	Quick Ratio	$(\text{CA} - \text{Inventory}) / \text{CL}$	Liquid assets excl. slow inventory
	D/E Ratio	$\text{Total Debt} / \text{Total Equity}$	Capital structure risk
	Interest Coverage	$\text{EBIT} / \text{Interest Expense}$	Debt serviceability ( $\geq 3x$ )
	DSCR	$\text{NOI} / \text{Total Debt Service}$	CF available for debt payments
Valuation			
	EV/EBITDA	$\text{Enterprise Value} / \text{EBITDA}$	Capital-neutral relative valuation
	P/E Ratio	$\text{Share Price} / \text{EPS}$	Price per dollar of earnings
	DCF	$\sum [\text{FCF} / (1+\text{WACC})^t] + \text{TV} / (1+\text{WACC})^n$	Intrinsic value from future cash flows
	WACC	$E / (D+E) \times \text{Ke} + D / (D+E) \times \text{Kd} \times (1-T)$	Blended cost of capital
	Terminal Value	$\text{FCF}_n \times (1+g) / (\text{WACC}-g)$	Value beyond projection period
Efficiency			
	Asset Turnover	$\text{Revenue} / \text{Total Assets}$	Revenue per dollar of assets
	Inv. Turnover	$\text{COGS} / \text{Average Inventory}$	Times inventory sold/replaced per year
	DSO / DPO	$(\text{AR}/\text{Rev}) \times 365$ or $(\text{AP}/\text{COGS}) \times 365$	Days to collect / days to pay
	Cash Conv. Cycle	$\text{DSO} + \text{DIO} - \text{DPO}$	Days between cash out and cash in

INDUSTRY KPIs — 7 Sectors (Chapters 6–12)			
Industry	KPI	Definition	Formula
Retail (Ch 6)			
	SSS	Revenue growth, stores open >12 months	$(\text{Curr SSS Rev} - \text{Prior}) / \text{Prior}$
	GMROI	Gross margin return on inventory	$\text{GM}\$ / \text{Avg Inventory Cost}$
	Inventory Turnover	Times inventory sold/replaced per yr	$\text{COGS} / \text{Avg Inventory}$
	Conversion Rate	% of visitors who purchase	$\text{Transactions} / \text{Foot Traffic}$
Services (Ch 7)			
	Revenue / FTE	Revenue per full-time employee	$\text{Revenue} / \text{Number of FTEs}$
	Utilization Rate	% hours on billable work	$\text{Billable Hrs} / \text{Available Hrs}$
	Client Churn	% clients lost per period	$\text{Lost Clients} / \text{Total at Start}$
	Project Margin	Profitability per engagement	$(\text{Proj Rev} - \text{Cost}) / \text{Proj Rev}$
Real Estate (Ch 8)			
	NOI	Net Operating Income	$\text{Gross Rental Income} - \text{OpEx}$
	Cap Rate	Return based on property income	$\text{NOI} / \text{Property Value}$
	DSCR	CF coverage of debt payments	$\text{NOI} / \text{Annual Debt Service}$
	IRR	Annualized time-value return	$\text{NPV of all CFs} = 0$
	Equity Multiple	Total return on equity	$\text{Total Distributions} / \text{Equity}$
Oil & Gas (Ch 9)			
	Netback	Rev/bbl minus operating costs	$\text{Price} - \text{Royalties} - \text{Costs} - \text{Transport}$
	F&D Cost	Cost to find/develop 1 bbl reserves	$(\text{Expl} + \text{Dev}) / \text{Reserves Added}$
	Reserve Repl.	Reserves added vs depleted	$\text{Reserves Added} / \text{Production}$
	Break-even	Oil price to cover all costs	$\text{Total Costs} / \text{Production}$
Telecom (Ch 10)			
	ARPU	Avg Revenue Per User / month	$\text{Revenue} / \text{Avg Subscribers}$
	Churn	% subscribers lost per month	$\text{Lost} / \text{Total at Start}$
	EBITDA Margin	Operating profitability	$\text{EBITDA} / \text{Revenue}$
	LTV / CAC	Customer value vs acq cost	$\text{LTV} / \text{CAC}$
Manufacturing (Ch 11)			
	OEE	Overall Equipment Effectiveness	$\text{Availability} \times \text{Perf} \times \text{Quality}$
	Contrib. Margin	Rev minus variable cost per unit	$(\text{Price} - \text{Var Cost}) / \text{Price}$
	Break-even Vol	Units to cover fixed costs	$\text{Fixed Costs} / \text{Contrib Margin}$
	COGS/Revenue	Production cost intensity	$\text{COGS} / \text{Revenue}$
Airlines (Ch 12)			
	RASM	Revenue per Avail Seat Mile	$\text{Revenue} / \text{ASM}$
	CASM	Cost per Avail Seat Mile	$\text{Costs} / \text{ASM}$
	Load Factor	% seats filled with passengers	$\text{RPM} / \text{ASM}$
	BE Load Factor	Load factor to cover costs	$\text{CASM} / \text{RASM}$