

PFL Academy

Teacher Guide: Chapter 67 — Investment Technology and Behavioral Investing

OVERVIEW

TIME	MATERIALS	PREREQUISITES
45-50 Minutes	Student Activity Packet	L-47: Investment Types, L-64: Risk and Return

LESSON FLOW

5 min THE CHALLENGE

- Read Marcus's pandemic panic story—emphasize his pre-written rule saved him.
- Discussion: "How did it feel to keep investing when everything was crashing?"
- Key insight: The rule was written BEFORE the crisis, not during.

10 min CORE CONCEPTS

- Cover the 3.6% behavioral gap—this is the "wow" statistic.
- Walk through each bias with relatable examples students can connect to.
- Quick check: "Which bias drives FOMO investing?" (Herd mentality + recency)

25-30 min APPLY IT

- **Part A (10 min):** Platform matching—discuss why personality matters for platform choice.
- **Part B (5 min):** Bias identification—ensure students can recognize each bias.
- **Part C (10 min):** Creating rules—this is the actionable takeaway.

10 min CHECK YOUR UNDERSTANDING

- Q3 calculation shows real cost of confirmation bias.
- Q5 personal reflection is crucial—honest self-assessment prevents future mistakes.

DIFFERENTIATION

Support

- Use simple bias summaries: "Loss aversion = hate losing more than love winning."
- Provide behavioral rule templates for Part C.
- Focus on just 2-3 biases rather than all four.

Extension

- Research Daniel Kahneman's prospect theory and Nobel Prize work.
- Compare actual robo-advisor features and fees (Betterment vs. Wealthfront).
- Design a complete "Investment Policy Statement" with bias-countering rules.

ANSWER KEY

Part A: Platform Comparison

Keisha: Robo-advisor. Automation prevents FOMO-driven decisions. She doesn't enjoy research, so DIY would lead to poor choices or neglect. Modest fee is worth behavioral guardrails.

Derek: Online brokerage. He enjoys research and is disciplined. Lower costs (fund fees only). Full control matches his preference and personality.

Part B: Behavioral Bias Identification

B - After markets rose 30%... assumes gains continue = **Recency Bias**

A - Refuses to sell stock down 40% = **Loss Aversion**

D - Everyone at work buying crypto = **Herd Mentality**

C - Only reads positive news = **Confirmation Bias**

Part C: Creating Behavioral Rules

Accept rules that are: (1) Specific and actionable, (2) Written in advance, (3) Address specific bias vulnerabilities. Examples: "Invest same amount monthly regardless of headlines." "Never sell within 48 hours of market drop." "Review investments only quarterly."

Check Your Understanding

1. B (Loss aversion)

2. Recency bias causes buying after rallies (high) and selling after crashes (low). Loss aversion causes panic selling during downturns. Herd mentality amplifies both behaviors. Result: systematically buying high, selling low.

3. Sold at \$25 instead of \$38:

Loss per share: $\$38 - \$25 = \$13$

$100 \text{ shares} \times \$13 = \$1,300$ cost of confirmation bias

4. Robo-advisors automate rebalancing and remove the "sell" button during panic. They make it harder to act on emotional impulses. Automation creates friction that prevents rash decisions.

COMMON MISCONCEPTIONS

Misconception	Clarification
"Smart people don't have behavioral biases."	Biases are hardwired into human psychology—even Nobel Prize-winning economists exhibit them. Awareness helps but doesn't eliminate biases; systems and rules are required.
"I'll be able to stay calm during a crash."	Everyone thinks this until they experience 30%+ losses. Pre-written rules and automation are essential because you CAN'T trust your future panicked self.
"Robo-advisors are only for beginners."	Many sophisticated investors use robo-advisors specifically for behavioral guardrails. Automation prevents even experienced investors from making emotional mistakes.