

Simulation Activity: The AI Black Box

Your investment firm has four sector options. Invest in two of the sectors by buying one share in the two companies. The starting rate is \$100 / share for each sector. Keep track of your total money at the bottom using a pencil. (After you buy the two stocks, you will have -\$200.) The goal is to sell when stocks go up, and buy when they go down. Try to gain as much money as possible. Each day, the AI will cause changes in the market, but you won't know why. You can respond by buying or selling, and you can always hold on to what you have if you don't want to buy or sell. You can always buy a stock and go further in debt. You can hold one share in each industry, but not more. (Thus a maximum of 4.) At the end of 10 days, sell everything and see how much money you have.)

Day	Tech Stocks	Energy Stocks	Retail Stocks	Agriculture Stocks
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Keeping track of total money: Start with -\$200

Simulation Activity: AI Market Movers (for teacher)

Stock values all start at \$100. Keep track of values on the board. The AI's market changes should be announced at the beginning of each day. Write the new values (or have a student write them) on the board.

When stocks change value, they change by \$15, either up or down. Neutral means the stock stays the same value.

Each of the 10 changes is intended to be a market change based on AI advisors' actions. They should happen randomly. You could print out this page and then cut it up to put in a random order if desired.

Student groups then have the chance to buy, sell, or hold based on the changes. After they have all decided, give them the chance to theorize why the AI made the decision it did. Explain afterward why the specific change was made.

Daily Changes A: Tech Breakthrough! A major tech company releases a fancy new product				Daily Changes B: Energy Crisis! Political instability leads to oil supply fears			
Tech Up	Energy Down	Retail Up	Ag Down	Tech Down	Energy Up	Retail Down	Ag Down

Daily Changes C: Retail Boom! A new trend significantly boosts retail sales				Daily Changes D: Agricultural breakthrough! New high-yield crop variety announced			
Tech Up	Energy Up	Retail Up	Ag Neutral	Tech Up	Energy Neutral	Retail Neutral	Ag Up

Daily Changes E: Tech Crash! A leading tech company faces a major scandal				Daily Changes F: Green Energy Revolution! Breakthrough in renewable energy			
Tech Down	Energy Neutral	Retail Down	Ag Up	Tech Up	Energy Up	Retail Up	Ag Up

Daily Changes G: E-commerce Legislation! New laws favor brick-and-mortar stores				Daily Changes H: Global Health Scare! Concerns about possible pandemic			
Tech Down	Energy Neutral	Retail Up	Ag Neutral	Tech Up	Energy Down	Retail Down	Ag Up

Daily Changes I: Sustainable Farming! Push for eco-friendly agricultural practices				Daily Changes J: Investor Confidence Dips! General market uncertainty leads to caution			
Tech Up	Energy Up	Retail Neutral	Ag Up	Tech Down	Energy Down	Retail Down	Ag Up