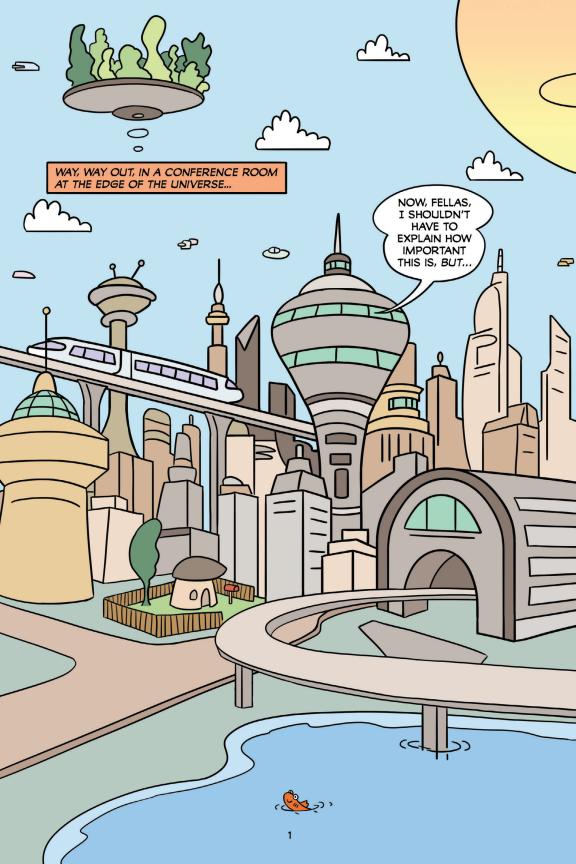
HOW DOES MONETARY POLICY WORK?

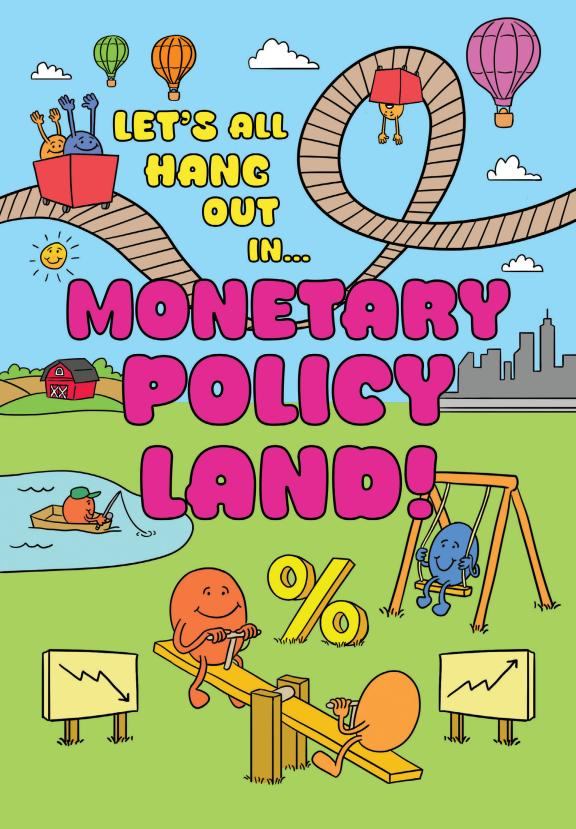
AN ECONOMIC ADVENTURE IN MONETARY POLICY IMPLEMENTATION

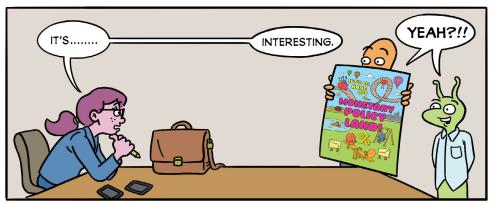


FEDERAL RESERVE BANK OF NEW YORK



































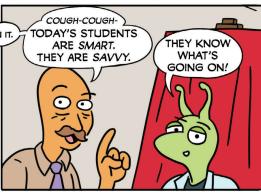












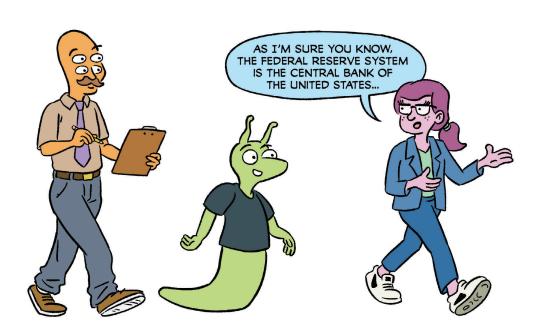






HOW DOES MONETARY POLICY WORK?

AN ECONOMIC ADVENTURE IN MONETARY POLICY IMPLEMENTATION



Federal Reserve System

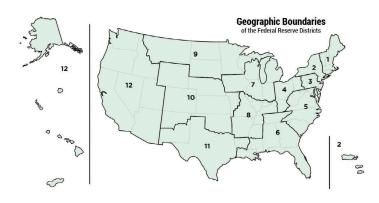
is the central bank of the United States.

ITS KEY ENTITIES ARE:

THE BOARD OF GOVERNORS (in Washington, D.C.)



12 REGIONAL FEDERAL RESERVE BANKS (across the U.S.)



AND THE

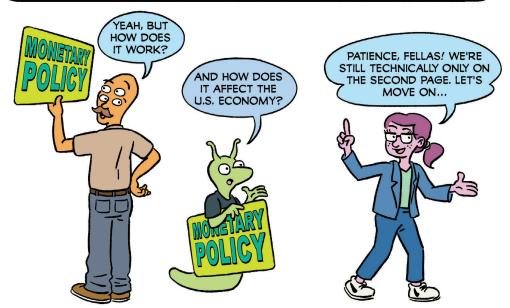
OPEN MARKET COMMITTEE. (FOMC)*

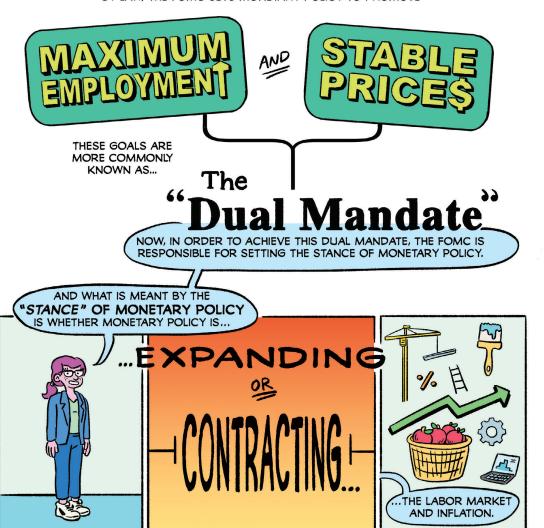
*THE FOMC INCLUDES MEMBERS OF THE BOARD OF GOVERNORS, THE PRESIDENT OF THE FEDERAL RESERVE BANK OF NEW YORK, AND FOUR OTHER REGIONAL RESERVE BANK PRESIDENTS WHO SERVE ON A ROTATING BASIS.



MONETARY POLICY

REFERS TO ACTIONS TAKEN TO INFLUENCE THE AVAILABILITY AND COST OF MONEY AND CREDIT IN THE U.S. ECONOMY.



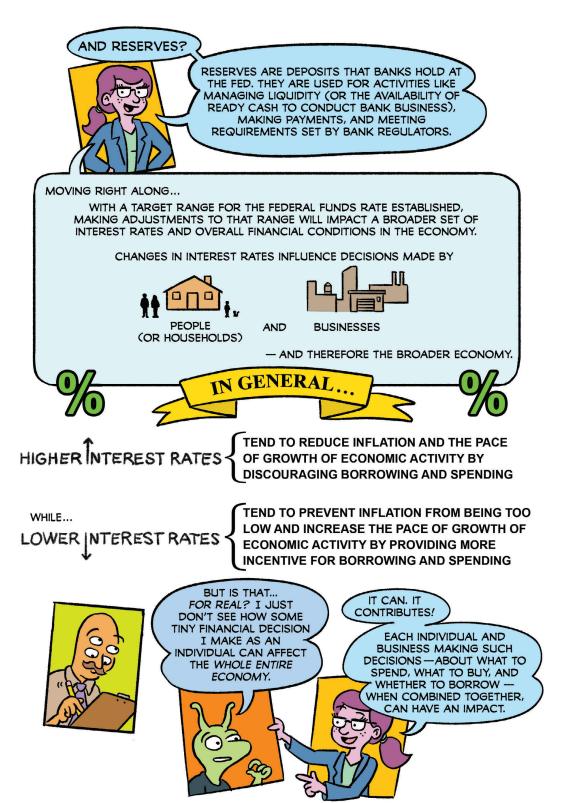


THE STANCE

IS PRIMARILY SET BY ESTABLISHING A TARGET RANGE FOR...

THE FEDERAL FUNDS RATE

THE FEDERAL FUNDS RATE IS THE INTEREST RATE AT WHICH BANKS CAN BORROW RESERVES IN PRIVATE MARKETS ON A TEMPORARY (OR OVERNIGHT) BASIS.



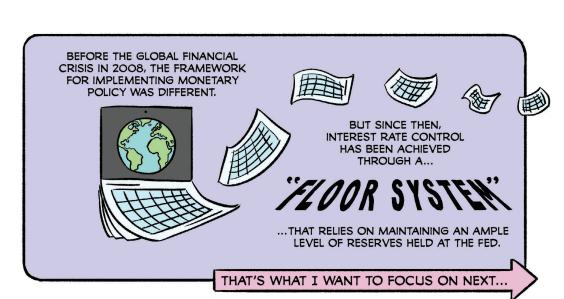


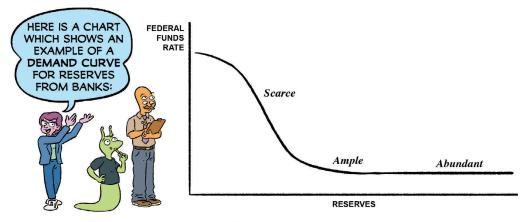
ONCE THE FOMC DECIDES ON THE APPROPRIATE STANCE OF MONETARY POLICY, THE FED USES VARIOUS TOOLS TO IMPLEMENT THAT MONETARY POLICY STANCE.

A KEY ASPECT OF SUCCESSFULLY IMPLEMENTING MONETARY POLICY IS THE ABILITY TO CONTROL SHORT-TERM INTEREST RATES, MEANING THAT THE FEDERAL FUNDS RATE REMAINS WELL WITHIN THE FOMC'S TARGET RANGE.

"IMPLEMENT" MEANS
PUTTING THE DECISION
OR POLICY INTO ACTION.

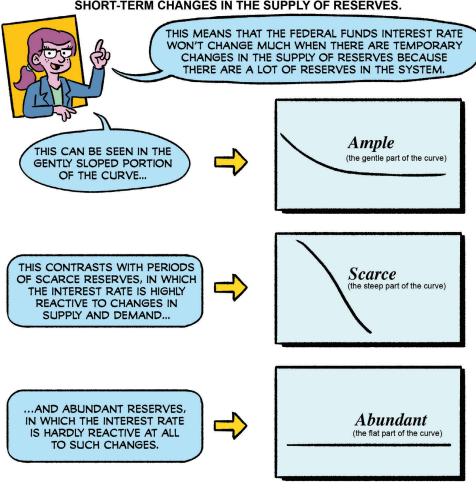


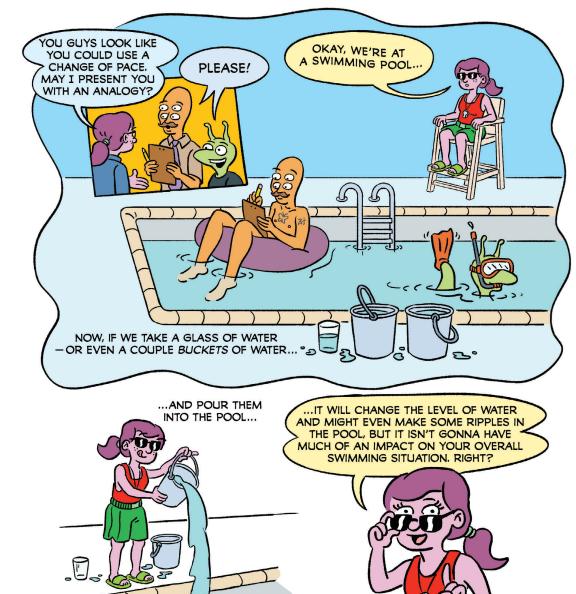




Ample Reserve Supply...

CREATES AN ENVIRONMENT IN WHICH THE FEDERAL FUNDS INTEREST RATE (THAT IS, THE COST OF BORROWING RESERVES IN THE FEDERAL FUNDS MARKET) IS NOT PARTICULARLY SENSITIVE TO SHORT-TERM CHANGES IN THE SUPPLY OF RESERVES.





SIMILARLY, WHEN YOU HAVE AMPLE RESERVES, CHANGES IN THE LEVEL OF RESERVES MAY NOT MAKE ENOUGH OF A DIFFERENCE TO CAUSE LARGE MOVES IN INTEREST RATES.

HENCE, THE AFOREMENTIONED...

FLOOR SYSTEM

WHICH THE FED INTRODUCED TO HELP IMPLEMENT MONETARY POLICY.

IN A FLOOR SYSTEM, THE FEDERAL FUNDS RATE IS PRIMARILY CONTROLLED BY OTHER INTEREST RATES THAT ARE SET BY FED POLICYMAKERS.

THERE ARE

TWO KEY INTEREST RATES

THAT SET THIS FLOOR.

ONE IS THE INTEREST RATE ON RESERVE BALANCES, OR...

AND THE OTHER IS THE ONE PLACED ON THE OVERNIGHT REVERSE REPO FACILITY, OR...

...FOR SHORT.

...FOR SLIGHTLY-LESS-SHORT.



THE FED PAYS THIS INTEREST RATE TO BANKS ON THE AMOUNT OF MONEY, OR RESERVES, THAT THEY KEEP AT THE FED. BY PAYING INTEREST ON RESERVES, THE FED CAN ENCOURAGE BANKS TO KEEP MORE RESERVES AVAILABLE TO MEET THE NEEDS OF THEIR CUSTOMERS AND ESTABLISH A "FLOOR" TO KEEP THE FEDERAL FUNDS RATE IN ITS TARGET RANGE.

THIS WORKS BECAUSE BANKS ARE UNLIKELY TO LEND OUT THEIR RESERVES TO OTHERS IN THE PRIVATE MARKET AT A RATE LOWER THAN THE INTEREST RATE THEY CAN EARN FROM THE FED.

IT ACTS AS AN INCENTIVE FOR THE BANKS NOT TO LEND BELOW THE IORB RATE



OF COURSE

REMEMBER THAT ONLY BANKS ARE ELIGIBLE TO EARN IORB. HOWEVER, THERE ARE OTHER FINANCIAL INSTITUTIONS OUT THERE IN THE ECONOMY THAT ARE NOT BANKS. SOME OF THEM DON'T DEPOSIT WITH THE FED, OR THEY HAVE DEPOSITS AT THE FED THAT ARE NOT ELIGIBLE TO EARN INTEREST.

AS A RESULT, THOSE FINANCIAL INSTITUTIONS COULD THEN BE WILLING TO LEND FUNDS AT INTEREST RATES LOWER THAN THE IORB OR FEDERAL FUNDS RATES.

AND, TOO MUCH OF THIS TYPE OF LENDING COULD KNOCK THE FEDERAL FUNDS RATE OUT OF THE TARGET RANGE.

Enter ON RRP!

ON RRP THE FED OFFERS THE OVERNIGHT REVERSE REPO FACILITY AS
A TEMPORARY INVESTMENT OPPORTUNITY FOR NON-BANK
FINANCIAL INSTITUTIONS PARTICIPATING IN MONEY MARKETS. THESE INSTITUTIONS
AREN'T ELIGIBLE TO EARN INTEREST ON RESERVE BALANCES, OR IORB.

BUT JUST LIKE IORB FOR BANKS, THE ON RRP FACILITY INTEREST RATE PROVIDES AN INCENTIVE FOR CERTAIN NON-BANKS NOT TO LEND AT A LOWER RATE.

ON RRP REINFORCES THE FLOOR SET BY IORB.





IN ADDITION TO THE FLOOR SYSTEM,
THERE ARE OTHER TOOLS THAT HELP
EFFECTIVELY IMPLEMENT MONETARY
POLICY AND ENSURE THE STABILITY OF
THE BANKING AND FINANCIAL SYSTEM.

FINANCIAL INSTITUTIONS OCCASIONALLY REQUIRE ADDITIONAL READY CASH TO BETTER SERVE THEIR CUSTOMERS - THE PEOPLE (OR HOUSEHOLDS) AND BUSINESSES MAKING THEIR EVERYDAY DECISIONS IN THE ECONOMY.

ONE WAY TO DO THIS IS THROUGH **OPEN MARKET OPERATIONS**CONDUCTED WITH PRIMARY DEALERS BY THE NEW YORK FED OPEN MARKET
TRADING DESK, IN WHICH THE FED INCREASES LIQUIDITY EITHER TEMPORARILY
OR MORE PERMANENTLY.



THE FED'S DISCOUNT WINDOW DATES BACK TO THE BEGINNING OF THE FEDERAL RESERVE SYSTEM. THOUGH NOT LITERALLY A WINDOW ANYMORE, THE "DISCOUNT WINDOW" REFERS TO THE LOANS THAT CENTRAL BANKS CAN USE TO PROVIDE FUNDS TO COMMERCIAL BANKS SO THEY CAN MEET THE NEEDS OF THEIR HOUSEHOLD AND BUSINESS CUSTOMERS.



INSTITUTIONS BORROW FROM THE DISCOUNT WINDOW FOR A VARIETY OF REASONS, INCLUDING TEMPORARY FUNDING NEEDS IN PERIODS OF MARKET STRESS.

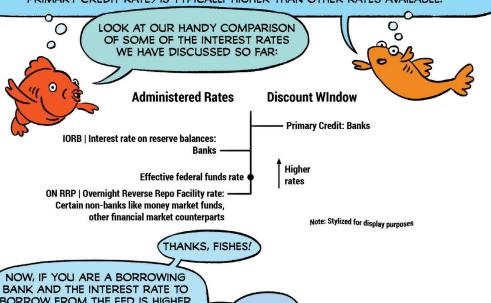
THERE ARE DIFFERENT PROGRAMS CURRENTLY IN OPERATION AT THE DISCOUNT WINDOW. THE IMPORTANT THING TO KNOW IS THAT THEY ALL PROVIDE A BACKUP SOURCE OF LIQUIDITY TO BANKS, LENDING CASH AGAINST A WIDE RANGE OF ELIGIBLE COLLATERAL (OR, ASSETS PLEDGED BY A BANK TO SECURE THE LOAN).

WHY IS IT A BACKUP? COULDN'T
THE BANKS JUST GO TO THE FED
FOR DISCOUNT WINDOW LOANS
ANY TIME THEY NEED CASH? AND
SKIP THE FEDERAL FUNDS
MARKET OR BORROWING IN
OTHER PRIVATE MARKETS?





THE DISCOUNT WINDOW OFFERS COLLATERALIZED LOANS TO COMMERCIAL BANKS. HOWEVER, THE INTEREST RATE ON THOSE LOANS (SOMETIMES REFERRED TO AS THE DISCOUNT RATE OR PRIMARY CREDIT RATE) IS TYPICALLY HIGHER THAN OTHER RATES AVAILABLE.



NOW, IF YOU ARE A BORROWING BANK AND THE INTEREST RATE TO BORROW FROM THE FED IS HIGHER THAN OTHER LOAN OPPORTUNITIES, WOULD YOU WANT TO PAY A HIGHER OR LOWER INTEREST RATE?



LOWER!

SO, TO GET A BETTER DEAL AND PAY LESS INTEREST FOR THE PRINCIPAL BORROWED, A BORROWING BANK WOULD NOT WANT TO PAY THE HIGHER INTEREST RATE FROM THE FED IF A LOWER INTEREST RATE IS AVAILABLE IN THE PRIVATE MARKET.

THE DISCOUNT WINDOW IS ALSO AN IMPORTANT TOOL FOR MAINTAINING

I THE FEDERAL FUNDS RATE WITHIN ITS TARGET RANGE.

REMEMBER HOW IORB AND ON RRP HELP TO SET A FLOOR FOR THE FEDERAL FUNDS RATE RANGE? THE DISCOUNT WINDOW HELPS TO REDUCE PRESSURE WHEN MARKET RATES WOULD OTHERWISE GO ABOVE THE TOP OF THE TARGET RANGE.

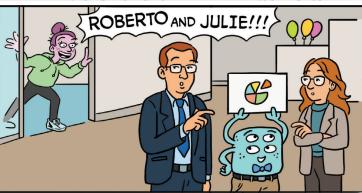
THIS WORKS BECAUSE BANKS ARE UNLIKELY TO BORROW FROM OTHERS IN THE PRIVATE FEDERAL FUNDS MARKET AT A RATE HIGHER THAN THE INTEREST RATE THEY CAN PAY IF THEY BORROW FROM THE FED.



IT ACTS AS AN INCENTIVE
FOR THE BANKS NOT TO
LEND RESERVES TO EACH
OTHER AT RATES ABOVE
THE DISCOUNT WINDOW
OR PRIMARY CREDIT RATE.













THE FOMC SETS MONETARY POLICY TO PROMOTE MAXIMUM EMPLOYMENT AND STABLE PRICES. THESE GOALS ARE MORE COMMONLY KNOWN AS THE "DUAL MANDATE."

AND THE POLICY STANCE IS SET BY ESTABLISHING A TARGET RANGE FOR THE FEDERAL FUNDS RATE. THE STANCE IS SET TO EITHER SPEED UP (TARGET RANGE IS SET LOWER), SLOW (TARGET RANGE IS SET HIGHER), OR MAINTAIN (NO CHANGE TO THE TARGET RANGE) THE PACE OF ECONOMIC ACTIVITY AT LEVELS TO MAXIMIZE EMPLOYMENT WHILE KEEPING PRICES STABLE.

MONETARY POLICY IS IMPLEMENTED BY SETTING THE IORB, ON RRP, AND PRIMARY CREDIT (DISCOUNT WINDOW) RATES AND CONDUCTING OPEN MARKET OPERATIONS TO HELP KEEP THE FEDERAL FUNDS RATE IN ITS TARGET RANGE.

THE FEDERAL FUNDS RATE AND ACTIONS OF THE FED AND FOMC THEN IMPACT OTHER INTEREST RATES IN THE ECONOMY. NOT TO MENTION ALL OF THE INDIVIDUAL DECISIONS WE ALL MAKE EVERY DAY ABOUT WHAT TO SPEND, WHAT TO BUY, AND WHETHER TO BORROW. EACH HOUSEHOLD AND BUSINESS MAKING THOSE DECISIONS (AND ALL OF OUR EXPECTATIONS ABOUT HOW THE ECONOMY WILL PERFORM) WILL TRANSMIT MONETARY POLICY ACROSS THE ECONOMY.

OVER TIME, WE WILL SEE IF AND HOW THE STANCE OF MONETARY POLICY (ALONG WITH A LOT OF OTHER ECONOMIC FACTORS!) HELPS TO INCREASE OR DECREASE DEMAND FOR GOODS AND SERVICES.

> IT IS IMPORTANT FOR COMMUNITIES TO UNDERSTAND WHAT MONETARY POLICY IS AND HOW IT IS IMPLEMENTED TODAY.

THANK YOU FOR HELPING TO GIVE STUDENTS
A BETTER UNDERSTANDING OF MONETARY
POLICY IMPLEMENTATION THAN THEY MIGHT
HAVE HAD BEFORE!



GOALS

- · Dual Mandate
 - · Maximum employment
 - Low and stable inflation



• Target range for the federal funds rate



MONETARY POLICY IMPLEMENTATION

- Set administered rates (IORB and ON RRP)
- Conduct open market operations as directed by FOMC
- · Discount Window



TRANSMISSION CHANNELS

- · Overall financial conditions
 - Interest rates
- Expectations of households and businesses



EFFECTS

Spur or restrain growth in overall demand for goods and services

FOR MORE INFORMATION, VISIT:

NEW YORK FED ECONOMIC EDUCATION NYFED.ORG/ECON-ED

MARKETS & POLICY IMPLEMENTATION NYFED.ORG/MARKETS

FEDERAL RESERVE EDUCATION FRE.ORG

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