Back in my day, a pack of gum cost a...

What other items seem to have increased rapidly in value?

(Please write your responses on the board with the Promethean pen)

Gaspices Bottled Water
Conoly Water
College Tuition
Starbucks

## Today's learning objective:

By the end of class, I will be able to differentiate the types and functions of money as well as describe how inflation impacts the time value of money.

#### Today's language objective:

\*I'll use the following terms verbally with peers:
Inflation
Time value of money
Fiat money vs commodity money
Liquid vs illiquid
Basket

#### Do we want inflation?

If yes, how much? Why?
If no, why?

# YOLO

· (spurs coment year

consumption)

#### Benefits of Inflation

\*Lack of stagnation because money continues to flow \*For loans, you'll pay back "less" on debt you incur today

#### Drawbacks of Inflation

\*Money you have currently is worth less in the future \*Inflation could be used as an excuse to raise prices disproportionately \*Very high inflation rates are terrible

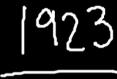
# How do we calculate inflation?

\*

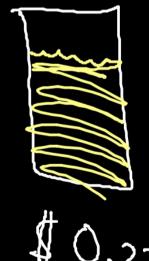
.045

4.5%

1922



$$\frac{N}{0}$$
 - 1





## Calculating inflation

We look at the average price of several baskets of goods and services we typically buy.

We analyze the prices in one year and compare them to the prices the next year.

This is called the Consumer Price Index (CPI).

What are the "baskets?"

Housing
Food/Bev
Apparel
Transpo\*
Medical
Recreation
Education
Other

\*Transpo = transportation

| 2015 USA         | 2016             |
|------------------|------------------|
| Housing \$1,200  | Housing \$1,500  |
| Food/Bev \$420   | Food/Bev \$480   |
| Apparel \$210    | Apparel \$230    |
| Transpo* \$410   | Transpo. \$380   |
| Medical \$220    | Medical \$230    |
| Recreation \$120 | Recreation \$150 |
| Education \$110  | Education \$150  |
| Other \$40       | Other\$50        |
| 2730             | 0718             |
|                  |                  |

$$16.1\%$$
  $\frac{3170}{2730} - 1 = 0.161$ 

| 2015       |         | 2016       |         |
|------------|---------|------------|---------|
| Housing    | \$1,200 | Housing    | \$1,500 |
| Food/Bev   | \$420   | Food/Bev   | \$480   |
| Apparel    | \$210   | Apparel    | \$230   |
| Transpo*   | \$410   | Transpo.   | \$380   |
| Medical    | \$220   | Medical    | \$230   |
| Recreation | \$120   | Recreation | \$150   |
| Education  | \$110   | Education  | \$150   |
| Other      | \$40    | Other      | \$50    |

Add the baskets for each year.

| 2015       |             | 2016           |         |
|------------|-------------|----------------|---------|
| Housing    | \$1,200     | Housing        | \$1,500 |
| Food/Bev   | \$420       | Food/Bev       | \$480   |
| Apparel    | \$210       | <b>Apparel</b> | \$230   |
| Transpo*   | \$410       | Transpo.       | \$380   |
| Medical    | \$220       | Medical        | \$230   |
| Recreation | \$120       | Recreation     | \$150   |
| Education  | \$110       | Education      | \$150   |
| Other      | <u>\$40</u> | Other          | \$50    |
|            | \$2730      |                | \$3170  |

\*Add the baskets for each year

| 2015       |             | 2016       |         |
|------------|-------------|------------|---------|
| Housing    | \$1,200     | Housing    | \$1,500 |
| Food/Bev   | \$420       | Food/Bev   | \$480   |
| Apparel    | \$210       | Apparel    | \$230   |
| Transpo*   | \$410       | Transpo.   | \$380   |
| Medical    | \$220       | Medical    | \$230   |
| Recreation | \$120       | Recreation | \$150   |
| Education  | \$110       | Education  | \$150   |
| Other      | <u>\$40</u> | Other      | \$50    |
|            | \$2730      |            | \$3170  |

<sup>\*</sup>Add the baskets for each year

<sup>\*</sup>Divide newest year by earlier year

| 2015             | 2016             |
|------------------|------------------|
| Housing \$1,200  | Housing \$1,500  |
| Food/Bev \$420   | Food/Bev \$480   |
| Apparel \$210    | Apparel \$230    |
| Transpo* \$410   | Transpo. \$380   |
| Medical \$220    | Medical \$230    |
| Recreation \$120 | Recreation \$150 |
| Education \$110  | Education \$150  |
| Other\$40        | Other \$50       |
| \$2730           | \$3170           |

 $\frac{3170}{2730} = 1.16$ 

Subtract 1 to give you 16%. This means that inflation was 16% that year. Wayyyy too much (good thing this example is for illustrative purposes only; actual inflation graphs are available on my website!)

### The devaluation of money

\*Inflation essentially devalues your money \*Since "healthy" inflation is 2%, your money is typically worth 2% less each year!



#### Defeat inflation: intelligent consumption

What are some ways you can consume intelligently in order to minimize the impact of inflation on your monthly budget?

- · Coupons
- · clearance
- · avoid branding Premium

#### Defeat inflation: intelligent consumption

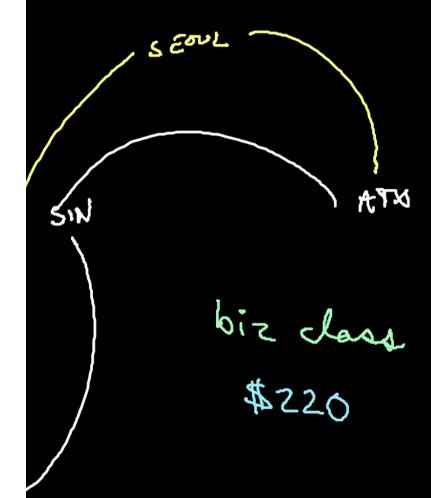
What are some ways you can consume intelligently in order to minimize the impact of inflation on your monthly budget?

\*Use coupons

\*Cash back credit cards

\*Buy items you need on clearance

\*Use online pricing tools to find cheapest price for goods you need to buy (wikibuy.com)



Defeat inflation: intelligent savings and investment

What are some ways you can invest or save intelligently in order to minimize the impact of inflation on your monthly budget?

```
· high interest sawings
· Roth IRA (non-toxable)
- S&P 500 90 yra of ~ 10%
(VOO)
```

### Defeat inflation: intelligent savings and investment

What are some ways you can invest or save intelligently in order to minimize the impact of inflation on your monthly budget?

- \*Invest in the S&P 500
- \*Ideally invest in a retirement account like a Roth IRA to minimize the impact of taxes
- \*If you have an emergency fund, keep it in a feefree savings account earning at least ~1% interest
- \*Ensure you aren't paying fees for your checking accounts at your bank

# Fiat Money **Commodity Money**

#### Fiat Money

- \*Literally means "faith" money \*The paper has value
- because it's backed by the "full faith and credit of the US gov't"

#### **Commodity Money**

\*The currency actually has inherent value \*For example: gold, silver, other precious metals

We were formerly on the "gold standard" which meant that a certain amount of money was equal to a corresponding amount of gold. This was referred to as the "gold standard" which was subsequently abandoned in 1971.



Who controls the amount of money in the system? \*The Federal Reserve \*We'll have a whole lesson on this in the next unit!

# **ASSETS**

Liquid

#### **ASSETS**

Liquid

- \*Cash
- \*Stocks
- \*Savings accounts

- \*Houses
- \*Cars
- \*Buildings