St. Joseph School finlit Course 7th Grade & 8th Grade Winter Term 2022 - 2023 February 16, 2023

> Planning for the future Class 31: Investment Funds - "Baskets" of Investments



NITWOM News In The World Of Money

02/16/2023: The Producer Price Index ("PPI") measures changes in prices for the domestic market of **raw goods and services**. PPI is a **leading indicator** of the Consumer Price Index ("CPI"). CPI is one measure of the inflation rate. **PPI increased 0.7% in January, much higher than the 0.4% estimate**. Excluding food and energy, which are the more volatile components, core PPI increased 0.5%, compared with expectations of a 0.3% increase. [Source]



Who has heard of investment funds? What do you think they are?

What Are Investment Funds?

Pools of money from many investors used to collectively purchase securities based on investment fund objectives

Funds for All Investors Transparent with widely available public information and heavily regulated **Examples:** Mutual **Funds and Exchange**

Traded Funds

Accredited Investors Only Opaque with limited available public information and more loosely regulated

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Examples: Hedge Funds, Private Equity Funds, and Venture Capital Funds

Out of Scope for finlit

What Are Investment Funds?

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Examples: Mutual Funds and Exchange Traded Funds A redited by the second states of the second states

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Recap Mutual Funds and Exchange Traded Funds ("ETFs")

- Investors may diversify investments across many securities by investing in only one security – a Mutual Fund or an ETF. How?
- Let's consider a shopping market as a metaphor:
 - Mutual Funds use "professional shoppers" known as portfolio managers to determine what securities go into or out of investors' shopping baskets
 - ETFs are "pre-built packages of securities" that investors put into or out of their shopping baskets



As we learned, the S&P 500 Index is composed of approximately 500 of the largest U.S. companies. Suppose I want investment exposure to S&P 500 Index, how might I get it?

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Option 1

Buy every S&P 500 company. Adjust when the index changes. Rebalance when the portfolio drifts.



Option 2

Buy a **mutual fund** or that tracks the S&P 500 such as the **Fidelity 500 Index Fund (FXAIX)**

Option 3

Buy an ETF that tracks the S&P 500 such as the SPDR S&P 500 ETF Trust (SPY)

Mutual Fund and ETF Benefits



Affordability

Convenience

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Low minimum investment requirements and operating expenses make it cost efficient for investors. Automatic investment options enable hassle-free and convenient investing over time, which makes dollar cost averaging very easy. A broad basket of stocks, bonds, and/or other investments within Mutual Funds and ETFs reduces the effects of single

asset risks.

Diversification

Professional Management

Mutual funds and ETFs are managed and operated by investment professionals who apply prudent stewardship practices over the investment funds.



Transparent

Mutual Funds and ETFs have extensive public information available. Investors can easily learn how funds are invested and how much the funds cost.

How Mutual Funds Work

Shares Shares Shares Investors

Buy a Mutual Fund

Investors **purchase shares** in a mutual fund in exchange for their cash. Investors' cash **enters** the mutual fund.

Managers Invest \$

Investments

Mutual Fund

Se

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Mutual fund managers **buy** and **sell** investments like stocks and/or bonds based on **the mutual fund's objectives**.

Sell a Mutual Fund

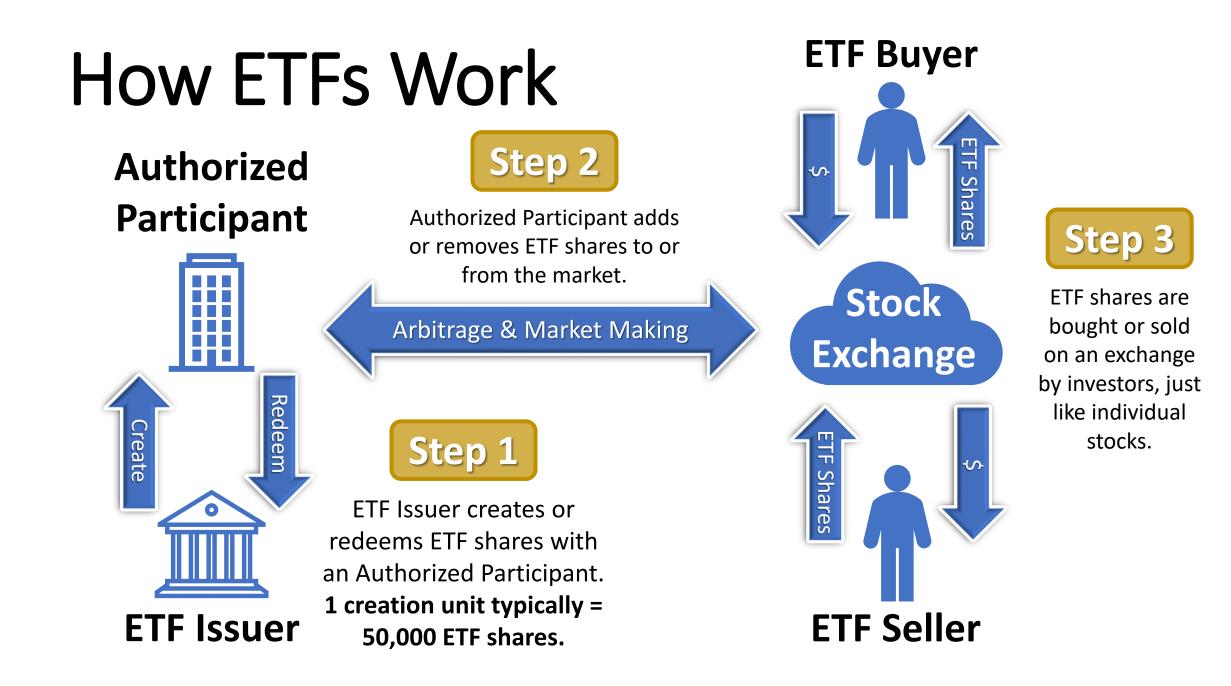
Investors

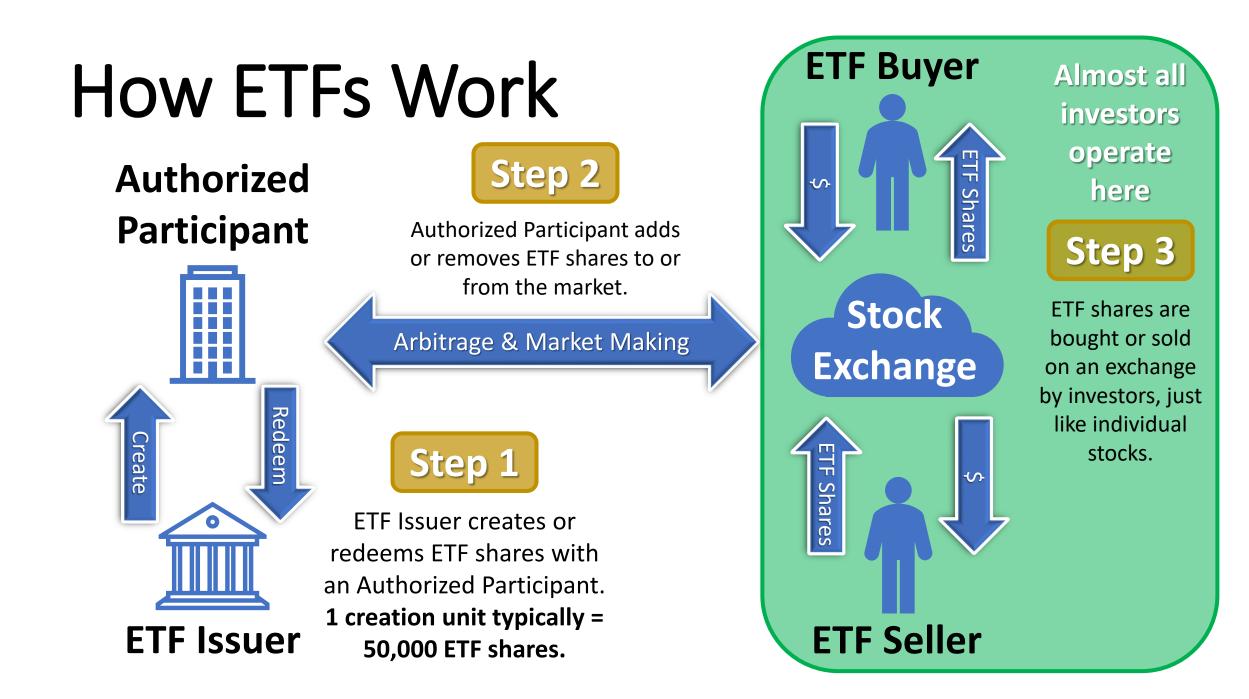
Shares

Investors **redeem shares** in exchange for cash from the mutual fund. Cash **exits** the mutual fund.



When an investor redeems mutual fund shares, where does the cash come from to pay out the investor's redemption?





Select ETF & Mutual Fund Types



Broad Market Index Funds

 Match the composition of a broad market index

- Example: S&P 500 Index



Investment Style Box Funds

Focus on investments that match certain category criteria
Example: US Large Cap Value



Sector Funds

- Focus on specific sectors of the economy

- Example: Technology Sector



Target Date Funds

- Reduce investment risk as a target date approaches

- Example: Retirement 2040

Morningstar® Equity Style Box

https://www.morningstar.com

			s Mutual Fo ocused on		
lization Size)	Large Cap (top 70% of capitalization)	1	2	3	
Market Capitalization (Company Size)	Mid Cap (next 20% of capitalization)	4	5	6	
Marke (Co	Small Cap (balance of capitalization)	7	8	9	
		Value	Blend	Growth	
		Investment Style			

Morningstar® **Fixed Income** Style Box with Examples

https://www.morningstar.com

		Classifies Mutual Funds and ETFs Focused on <u>Bonds</u>				
ity	High (>AA-)	а	b	С		
Credit Quality	Medium (>BBB- <aa-)< th=""><th>d</th><th>е</th><th>f</th></aa-)<>	d	е	f		
Ĵ	Low (<bbb-)< th=""><th>g</th><th>h</th><th>i</th></bbb-)<>	g	h	i		
		Limited	Moderate	Extensive		
		Interes	st Rate Sen	sitivity		

Mutual Fund and ETF Management Approaches





Active management

Fund managers select individual securities **based on research and analysis**. Fund managers buy and sell securities to **outperform a benchmark index**. *Most active fund managers struggle to beat benchmark indexes over long periods*.

Index management

Fund managers select individual securities to match a benchmark index. Fund managers buy and sell securities in proportion to the benchmark index. Index funds will always slightly lag the benchmark index because of the fund's fees and expenses.

						An	nount In	veste	d in a M	lutua	Fund or	ETF			
		\$1	,000	\$ 5	5,000	\$ 1	0,000	\$5	0,000	\$1	.00,000	\$ 5	500,000	\$ 1	,000,000
	0.10%	\$	1	\$	5	\$	10	\$	50	\$	100	\$	500	\$	1,000
Ratio	0.20%	\$	2	\$	10	\$	20	\$	100	\$	200	\$	1,000	\$	2,000
	0.30%	\$	3	\$	15	\$	30	\$	150	\$	300	\$	1,500	\$	3,000
Expense	0.40%	\$	4	\$	20	\$	40	\$	200	\$	400	\$	2,000	\$	4,000
(pe	0.50%	\$	5	\$	25	\$	50	\$	250	\$	500	\$	2,500	\$	5,000
	0.60%	\$	6	\$	30	\$	60	\$	300	\$	600	\$	3,000	\$	6,000
Operating	0.70%	\$	7	\$	35	\$	70	\$	350	\$	700	\$	3,500	\$	7,000
era	0.80%	\$	8	\$	40	\$	80	\$	400	\$	800	\$	4,000	\$	8,000
0 D	0.90%	\$	9	\$	45	\$	90	\$	450	\$	900	\$	4,500	\$	9,000
	1.00%	\$	10	\$	50	\$	100	\$	500	\$	1,000	\$	5,000	\$	10,000

Annual Fund Costs at Various Operating Expense Ratios and Investment Amounts

Mutual Fund and ETF Fees

- Investment funds charge an Operating Expense Ratio ("OER")
- The OER is % of assets under the fund's management
- The greater an investor's balance, the greater the annual cost

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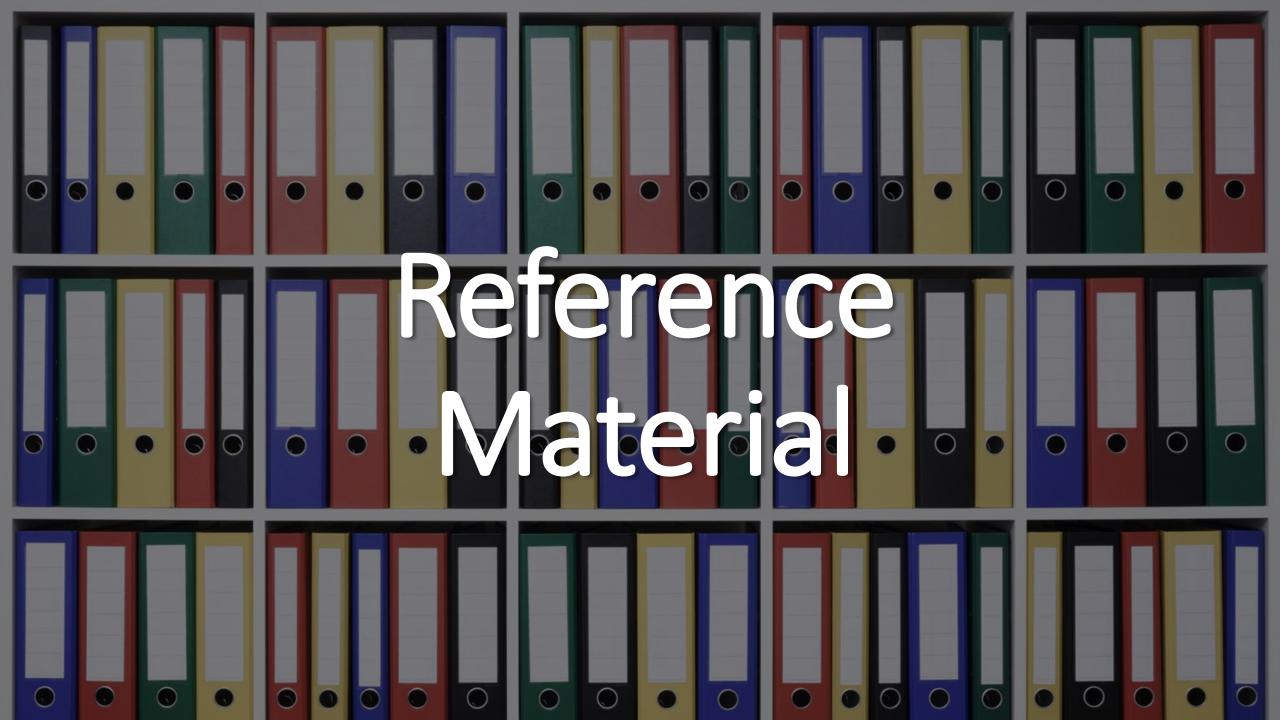
Coming Up on Investments – Deep Dives Into...

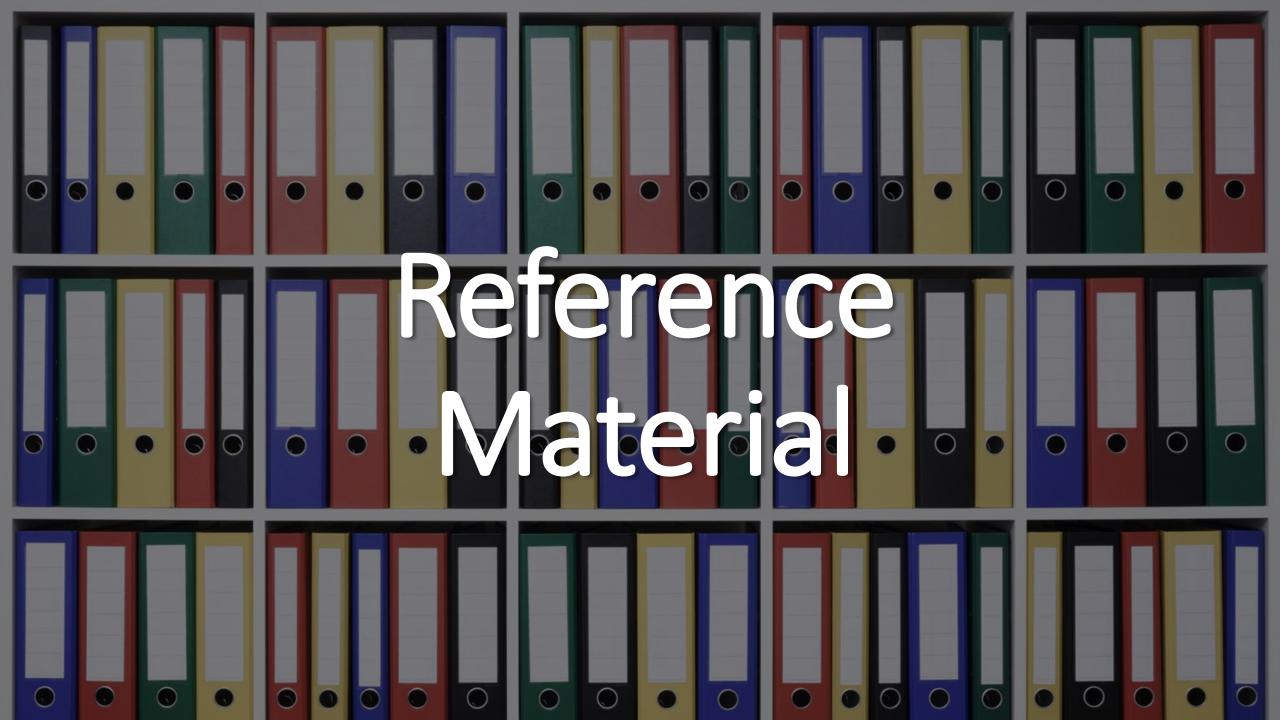
Introduction,
I. Introduction,
I. Financial Objectives,
J. Managing Risk,
J. Equities (Stocks),
I. Equities (Stocks),
S. Fixed Income (Bonds),
G. Mutual Funds & ETFs,
Putting it All Together.



Key Takeaways

- Mutual funds and ETFs enable investors to broadly diversify investments through the convenience of a single security
- Mutual funds and ETFs can be actively managed or track an index
- Mutual funds and ETFs make money by charging an operating expense ratio on the funds invested





Mutual Funds Overview





Mutual funds are investment companies that pool money from shareholders to invest in securities such as stocks, bonds, and other assets.

Investors buy mutual fund units or shares in exchange for transferring money into the mutual fund.

The added cash gives the mutual fund's professional asset managers money to invest, based on the mutual fund's objectives.

All mutual fund investors share in the gains (or losses) of the mutual fund based on the number of shares each investor owns.







If stocks or bonds represent groceries at a market, then think of a mutual fund as a professional shopper, who decides which groceries to buy.



The world's largest Mutual Fund is the Vanguard Total Stock Market Index (Ticker: VTSAX) with \$276 Billion in assets and operating expenses of 0.04%

Exchange Traded Fund (ETF) Overview

An ETF is a "basket" of securities (ex. stocks or bonds) that trades on an exchange, just like stocks do.

ETF share prices fluctuate during each trading day, as ETFs are bought and sold by investors. In contrast, mutual funds trade only once each trading day, after markets close.

If stocks or bonds represent groceries at a market, then think of an ETF as a basket of vegetables from the produce section -- another ETF might be a basket of breads from the bakery section.

The world's largest ETF is the SPDR S&P 500 ETF Trust (Ticker: SPY) with \$379 Billion in assets and operating expenses of 0.09%.



Performance data quoted represents past performance and does not indicate future results. Visit schwab.com for month-end performance information. Current performance may be lower or higher. Investment value will fluctuate, and shares, when redeemed may be worth less than original cost. Please visit http://schwab.com for more recent performance information.

Investors in ETFs should consider carefully information contained in the prospectus, including investment objectives, risks, charges and expenses. You can request a prospectus by calling 800-435-4000. Please read the prospectus carefully before investing.

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Card	Traded Funds Report
Report genera	ated on 02/14/2023, 02:15PM
PRICE Data as of 02/14/2023	TODAY'S CHANGE Data as of 02/14/2023
\$412.34	\$-0.49 (-0.12%)
QUOTE SUMMARY	
as of 02/14/2023, 02:00PM ES Day's Range	
52 Week Range	\$408.51 - 415.05 \$348.11 - 462.07
Average Volume (10 Da	y) 82,655,383.00
SEC Yield Distribution Yield	1.54% 1.56%
Previous Ex-Date	12/16/2022
Previous Pay Date	01/31/2023
FUND PROFILE	
Inception Date	01/22/1993
Category Fund Family	Large Blend SPDR State Street Global
	Advisors
Total Assets	\$380.0 Billion 0.09%
Gross Expense Ratio Net Expense Ratio	0.09%
	er than the gross expense
ratio may reflect a cap	on or contractual waiver of
	ad the fund prospectus for
details on limits or expir waivers.	ration dates for any such
Morningstar Rating	
Overall Rating	Out of 1227 Funds
	*** ****
3 Year Rating	Out of 1227 Funds
	*** ****
5 Year Rating	Out of 1119 Funds
* **	*** ****
10 Year Rating	Out of 822 Funds
* **	*** ****
Historical Return	Low High
Historical Risk	Low High
Past performance is no	
results. The ratings refle	ect historical risk-adjusted
	verall rating is derived from
Morningstar Rating met	he fund's 3, 5 and 10 year trics.
MARKET EDGE SEC	
Market Edge Second O	pinion®
	EUTRAL LONG
Market Edge Power Ra	
-60 0	100 STRONGER
WEAKER	STRUNGER
Market Edge Score	
-4 -3 -2 -1 DETERIORATING	0 1 2 3 4 IMPROVING
Ctock is a Prov	
Stock is a Buy.	
	Page 1 of 3



0.0 98.83 0.0 1.12 0.0 0.05 48.8% 35.3% 15.8% 0.1%

505

No

2%

Yes

26.5

14.7

11.7

10.6

84

7.8

6.7

5.1

2.9

2.8

2.8

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