Scenario Examples: Appreciation and Depreciation

For detailed activity ideas, please see the Grade 9 Financial Literacy Resource Guide. Below are examples of items that either appreciate or depreciate. Teachers can provide the tables of value for students to graph by hand, or with a graphing calculator or other online tools. Examining the graph(s), students can discuss the questions on page 4.

Scenarios of Appreciation

1) Collectible sneakers: A pair of popular Yeezy[1]

Year	Dollar Value
2010	$250
2012	$378
2014	$654
2016	$968
2018	$1,379
2020	$1,899
2022	$2,139

2) Real estate: Average property price for a house in Toronto (1975-2020)[2]

Year	Dollar Value in 000's
1975	$35
1980	$65
1985	$170
1990	$160
1995	$200
2000	$250
2005	$360
2010	$474
2015	$749
2020	$1,045

3) Real estate: Average monthly rent for a 1-bedroom unit in Ottawa-Gatineau (2000-2020)[3]

Year	In Dollars Per Month
2000	$681
2002	$724
2004	$738
2006	$740
2008	$789
2010	$836
2012	$877
2014	$892
2016	$930
2018	$1,025
2020	$1,165

4) Stocks: The growth of Apple Inc. in 40 years (1982-2022)[4]

Year	U.S. Dollars Per Share
1982	$0.05
1987	$0.38
1992	$0.42
1997	$0.15
2002	$0.26
2007	$4.92
2012	$21.58
2017	$37.38
2022	$

5) Stocks: The growth of Nike Inc. (1982-2022)[5]

Year	U.S. Dollars Per Share
1982	$0.25
1987	$0.30
1992	$2.24
1997	$7.73
2002	$6.88
2007	$14.75
2012	$23.27
2017	$58.98
2022	$

Scenarios of Depreciation

1) Collectible sneakers: A pair of unpopular Converse[6]

Month/Year	Dollar Value
June 2019	$193
August 2019	$84
October 2019	$108
December 2019	$108
February 2020	$74
April 2020	$80
June 2020	$85
August 2020	$97
October 2020	$85
December 2020	$83

2) Smartphones: iPhone XR 64GB

Year	Dollar Value in CAD
2018	$1,029
2019	$799
2020	$699
2021	$549
2022	$349

3) Designer wedding dress[7]

Year	Dollar Value in USD
2011	$8,004
2012	$4,050
2013	$2,000
2014	$1,000
2015	$980
2016	$950
2017	$900
2018	$870
2019	$850
2020	$800
2021	$800
2022	$720

Sample Reflection Questions

1. What variables are represented on each axis?
2. Looking at your graph, does it look linear or non-linear? Explain.
3. During what time period(s) is the value increasing or decreasing quickly?
4. At what point has the value of the item dropped to half the original value or increased to double the original value?
5. What might have caused the change in value at a given time and how might this affect the people involved?
6. Choose a time period of 1 week, 1 month, 6 months, 1 year, and 10 years (if available). Did the item appreciate or depreciate during this time period?
7. Does a long-term view help you better understand an item's appreciation or depreciation? Explain.
8. How does the depreciation or appreciation of this item compare to the depreciation or appreciation of another item?
9. Why might it be helpful for you to understand how this item appreciates or depreciates?
10. Why do you think a business or non-profit organization has to take into account the depreciation of its assets when it does year-end accounting?

[1] Source for data points in 2010 and 2022: Solecollector.com
[2] Source for data points in 2000–2020: https://toronto.listing.ca/real-estate-price-history.htm
[3] Source: Statistics Canada. Table 34-10-0133-01 Canada Mortgage and Housing Corporation, average rents for areas with a population of 10,000 and over.
[4] Source: TSX
[5] Source: Nasdaq
[6] Source: StockX
[7] Source for data points in 2011 and 2022: Oncewed.com