



## CLIL (Content and Language Integrated Learning) Lesson Plan

<b>Subject:</b>	Financial Investment & Stocks
<b>Topic:</b>	How Events like Power Plant Reopenings Influence Stock Prices
<b>Target Group:</b>	18-year-old pupils in a technical school (23 pupils)
<b>Duration:</b>	100 minutes
<b>Prior Knowledge:</b>	The topic has been covered in previous lessons in German
<b>Resources:</b>	<p>PP-Presentation of the teacher created with gamma.ai, article summary on the Green Mile Island reopening, stock price charts from <a href="http://www.wallstreetonline.de">www.wallstreetonline.de</a>.</p> <p>Podcast created with <a href="http://notebooklm.google">notebooklm.google</a>, AI-Video created with InvideoAI.</p> <p>Websites, <a href="http://www.marketwatch.com">www.marketwatch.com</a>, <a href="http://www.investing.com">www.investing.com</a>.</p>
<b>Assessment:</b>	Based on participation during discussions, group work, and presentations, immediate verbal feedback on presentations and group work.

### Language Support:

- Teacher has created a short quiz on MS Teams with the most important keywords in English and asks the students to complete it. Each question has four answer choices, with only one being correct.
- Scaffold language for group discussions and presentations (e.g., "We believe the stock price will rise/fall because...").

## Lesson Objectives (Using Bloom's Taxonomy):

- **Remembering:** Define basic stock market concepts (financial investment, stock price, stock market influence).
- **Understanding:** Explain the connection between major events (e.g., power plant reopenings) and their impact on company stock prices.
- **Applying:** Analyze how the reopening of the Three Mile Island plant may affect Constellation Energy and Microsoft stock prices.
- **Analyzing:** Investigate other events that can influence stock prices (e.g., product launches, mergers).
- **Evaluating:** Evaluate whether investing in companies like Constellation Energy is a wise decision based on current trends.
- **Creating:** In groups, propose potential financial strategies for investing based on hypothetical or real-life events, then present them.

## Lesson Structure

### 1. Introduction (10 minutes)

- **Teacher-led Discussion:** Teacher explains the purpose of the lesson—how financial investments and major corporate events, like reopening nuclear plants, affect stock prices.
- Introduction of **Constellation Energy** and **Microsoft**. Teacher mentions that today's task involves analyzing the impact of the Three Mile Island reopening event on these companies' stocks. (See PP file „Teachers introduction“)
- **Warm-up Question (Class Discussion):** "What other events can affect stock prices in a positive or negative way?"

Illustration: (OpenAI's ChatGPT Sprachmodell; Create an illustration to the topic PowerPointPresentation generated by AI: Persönliche Kommunikation; 01.04.2025)



## 2. Vocabulary & Key Concepts (15 minutes), quiz on MS Teams

- **Keywords on the MSTEams quiz:**

- **financial investment**
- **stock prices**
- **corporate events**
- **market capitalization**
- **volatility**
- **capital gain**
- **bull or bear market**
- **shareholder**
- **dividend**



Illustration: (OpenAI's ChatGPT Sprachmodell; Create an illustration to the topic quiz generated by ChatGPT: Persönliche Kommunikation; 01.04.2025)

### Quiz created by ChatGPT

(OpenAI's ChatGPT Sprachmodell; Create a quiz on the following technical terms in English: financial investment, bull or bear market, shareholder, corporate events, capital gain, dividend, stock prices, volatility, market capitalization. Adapt the quiz to the language level of 18-year-old students at a Higher Technical Institute, according to the Common European Framework of Reference for Languages (CEFR) level B2. Prior knowledge of the technical terms in German is available. Provide four answer options for each term, with one correct answer. Please include the correct solutions at the end of the quiz: Persönliche Kommunikation; 01.10.2024)

## Quiz: Financial Investment Terminology

**Instructions:** Choose the correct answer for each question.

1. What is a financial investment? a) A donation to a charity b) The purchase of an asset with the expectation of generating income or profit c) A mandatory government tax d) The process of saving money in a piggy bank
2. What does a bull market refer to? a) A market with falling stock prices b) A stable market with no significant changes c) A market with rising stock prices and investor confidence d) A marketplace for trading cattle
3. Who is a shareholder? a) A person who manages a company's daily operations b) A person or entity that owns shares in a company c) A government official regulating financial transactions d) A banker who grants loans
4. What are corporate events? a) Social gatherings for employees b) Public holidays affecting the stock market c) Significant company actions such as mergers, dividends, or stock splits d) Annual sports tournaments for corporate teams
5. What is capital gain? a) The amount of money a company borrows from a bank b) The profit from selling an asset for more than its purchase price c) A fine imposed by the government on businesses d) A discount given by financial institutions
6. What is a dividend? a) A penalty paid by companies for financial misconduct b) A percentage of a company's profits distributed to shareholders c) The amount of money needed to start a business d) A fee for trading stocks
7. What affects stock prices? a) Only the opinions of investors b) Supply and demand, company performance, and economic factors c) Fixed government regulations that do not change d) The number of employees in a company
8. What does volatility in the stock market mean? a) The stability of stock prices over a long period b) The rapid and unpredictable changes in stock prices c) The average price of stocks over the past decade d) The total number of companies listed on the stock exchange

9. What is market capitalization? a) The total value of a company's outstanding shares of stock b) The maximum amount of capital a company can raise c) The total number of investors in a stock market d) The highest stock price reached in a year

**Answers:**

1. b) The purchase of an asset with the expectation of generating income or profit
2. c) A market with rising stock prices and investor confidence
3. b) A person or entity that owns shares in a company
4. c) Significant company actions such as mergers, dividends, or stock splits
5. b) The profit from selling an asset for more than its purchase price
6. b) A percentage of a company's profits distributed to shareholders
7. b) Supply and demand, company performance, and economic factors
8. b) The rapid and unpredictable changes in stock prices
9. a) The total value of a company's outstanding shares of stock



**3. Reading Task: Three Mile Island Reopening (15 minutes)**

- **Group Reading:** Teacher provides students with the article summary about the Three Mile Island nuclear plant reopening and encourages them to focus on how the event might influence stock prices of Constellation Energy and Microsoft.
- **Guided Questions:**
  1. Why might the reopening of the plant be significant for Constellation Energy?
  2. How could Microsoft's decision to use this energy affect its stock?
  3. How do large-scale agreements impact investor confidence?

#### 4. What about ethical aspects of Artificial Intelligence in this context?

Illustration: (OpenAI's ChatGPT Sprachmodell; Create an illustration to the topic reading task in a class room: Persönliche Kommunikation; 01.04.2025)

Summary of the text:

NATIONAL

## Three Mile Island nuclear plant will reopen to power Microsoft data centers

SEPTEMBER 20, 2024 · 1:40 PM ET

By C Mandler



The Three Mile Island nuclear plant, located near Middletown, Pennsylvania, is set to reopen to supply power for Microsoft's data centers, which support the company's cloud computing and artificial intelligence operations. The plant, infamous for being the site of the worst commercial nuclear accident in U.S. history in 1979, has been closed since 2019 due to economic challenges. However, Constellation Energy, the largest U.S. producer of carbon-free energy, has signed a 20-year agreement with Microsoft to power its data centers, leading to the plant's reopening in 2028 under the new name "Crane Clean Energy Center," in honor of the late Chris Crane, a former CEO.

The deal is expected to create 3,400 jobs, generate more than \$3 billion in state and federal taxes, and add \$16 billion to Pennsylvania's GDP. Constellation Energy's president and CEO, Joe Dominguez, emphasized that nuclear energy is a reliable, carbon-free energy source necessary to power industries, particularly data centers, which require consistent energy. Governor Josh Shapiro also highlighted the role of Pennsylvania's nuclear industry in reducing emissions and supporting the state's economy.

The Three Mile Island plant has a controversial history due to the partial meltdown of one of its reactors in 1979, although the reactor being reopened was not involved in the incident. Activists, however, have raised concerns that taxpayers might bear the financial burden of reopening the plant. In contrast, others argue that nuclear energy is not the most economically viable option, as seen when the plant was closed in 2019 after failing to compete with cheaper energy sources.

This reopening aligns with broader nuclear energy initiatives, such as Bill Gates' investment in a nuclear power plant in Wyoming, aimed at providing energy for homes and artificial intelligence systems. The growing demand for clean energy and the potential economic benefits of nuclear power are central themes in this revival effort.

(<https://www.npr.org/2024/09/20/nx-s1-5120581/three-mile-island-nuclear-power-plant-microsoftai#:~:text=Three%20Mile%20Island%2C%20the%20power,computing%20and%20artificial%20intelligence%20programs.>)

#### 4. Group Work: Stock Price Analysis (20 minutes)

- **Instructions:** Teacher splits students into small groups (3-4 students each). Each group will:
  - analyze how the reopening of the Three Mile Island plant could affect the stock prices of Constellation Energy and Microsoft and look for other recent major events and discuss their effects on stocks.



- **Materials:**

- Stock price charts for Microsoft and Constellation Energy from the last 5 years (simplified for educational purposes).

- **Task Outcome:** Each group must prepare a brief presentation (5 minutes).

Illustration: (OpenAI's ChatGPT Sprachmodell; Create an illustration to the topic group work in a class room: Persönliche Kommunikation; 01.04.2025)

## 5. Presentations & Discussion (25 minutes)



- **Group Presentations:** Each group presents their analysis of how the power plant reopening could influence stock prices and discusses other impactful events.
- **Class Discussion:** After each presentation, the teacher and students ask follow-up questions and discuss the group's investment suggestions.

## 6. Conclusion & Reflection (15 minutes)



- **Teacher-led Conclusion:** Teacher summarizes how major events, like plant reopenings, mergers, or innovations, can significantly influence stock prices.
- **Reflection:** Teacher asks students to reflect on whether they would invest in a company like Constellation Energy after such an event and encourages them to share their thoughts.
- **End of the lesson:** A video created by the teacher using an AI feature will be shown, in which the students receive a summary of the topic. This video includes the most important keywords to reinforce their vocabulary knowledge

and understanding of the topic. An alternative would be listening to a podcast created by Notebooklm from Google.

Illustration: (OpenAI's ChatGPT Sprachmodell; Create an illustration to the topic showing a video in a class room: Persönliche Kommunikation; 01.04.2025)

**See MP4 file „invideo-ai-720 How Power Plant Reopenings Impact Stock 2024-09-29“ and WAV file „Power Plant Reopening\_ Stock Market Impact“.**